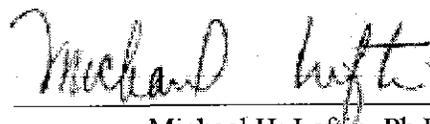


**ANALYTICAL DATA REPORT**

JMC Environmental Consultants  
2109 Bridge Avenue  
Building B  
Point Pleasant, NJ 08742

Project Name: **ARSYNCO**  
IAL Case Number: **E13-08996**

These data have been reviewed and accepted by:



Michael H. Leftin, Ph.D.  
Laboratory Director

**This report shall not be reproduced, except in its entirety, without the written consent of Integrated Analytical Laboratories, LLC. The test results included in this report relate only to the samples analyzed. The results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.**

# Sample Summary

*IAL Case No.*

**E13-08996**

*Client* JMC Environmental Consultants

*Project* ARSYNCO

*Received On* 9/12/2013@17:15

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Depth Top/Bottom</u>	<u>Sampling Time</u>	<u>Matrix</u>	<u># of Container</u>
08996-001	H-38S (0-2.0)	0/2	9/12/2013@11:35	Soil	1
08996-002	H-38S (2.0-4.0)	2/4	9/12/2013@11:36	Soil	1
08996-003	H-37W (2.0-4.0)	2/4	9/12/2013@12:10	Soil	1
08996-004	R-47R (0-1.0)	0/1	9/12/2013@13:45	Soil	1
08996-005	R-47R (1.0-2.0)	1/2	9/12/2013@13:46	Soil	1
08996-006	S-47 (0-1.0)	0/1	9/12/2013@14:33	Soil	1
08996-007	S-47 (1.0-2.0)	1/2	9/12/2013@14:34	Soil	1
08996-008	S-47 (2.0-3.0)	2/3	9/12/2013@14:35	Soil	1
08996-009	S-47 (3.0-4.0)	3/4	9/12/2013@14:36	Soil	1
08996-010	FB-8	n/a	9/12/2013@14:50	Aqueous	2

# INTEGRATED ANALYTICAL LABORATORIES, LLC.

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This report was finalized on October 01, 2013

\* Methodology is included in the IAL Project Information Page

INTEGRATED ANALYTICAL LABORATORIES, LLC.

DEFINITIONS / QUALIFIERS

DATA QUALIFIERS

- B** Indicates the analyte was found in the associated method blank as well as in the sample. It indicates probable laboratory contamination.
- C** Indicates analyte is a common laboratory contaminant.
- D** Indicated analyte was reported from diluted analysis.
- E** Identifies a compound concentration that exceeds the upper level of the calibration range of the instrument for that specific analysis.
- J** Indicates an estimated value. This flag is used when the concentration in the sample is below the RL but above the MDL.

REPORTING DEFINITIONS

- RL** Reporting Limit. The RL is determined by the lowest concentration in the calibration curve. For most Wet Chemistry methods, the RL is defined by using the PQL.
- MDL** Method Detection Limit as determined according to 40CFR Part 136 Appendix B.
- PQL** Practical Quantitation Limit. Usually defined as a value 3-5 times the MDL.
- ND** Indicates analyte was analyzed for but not detected above the MDL.
- DF** Dilution Factor
- LCS** Laboratory Control Sample
- LCSD** Laboratory Control Sample Duplicate
- MS** Matrix Spike
- MSD** Matrix Spike Duplicate
- DUP** Duplicate

CONFORMANCE / NON-CONFORMANCE SUMMARIES

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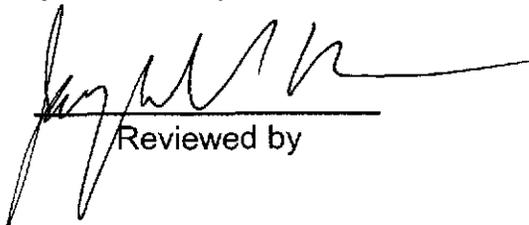
**INTEGRATED ANALYTICAL LABORATORIES, LLC.**

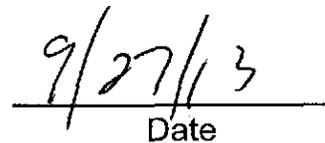
**CONFORMANCE / NONCONFORMANCE SUMMARY**

Integrated Analytical Laboratories, LLC. received one (1) aqueous and nine (9) soil sample(s) from JMC Environmental Consultants (IAL SDG # E13-08996, Project: ARSYNCO) on September 12, 2013 for the analysis of:

(10) TCL PCB

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:

  
\_\_\_\_\_  
Reviewed by

  
\_\_\_\_\_  
Date

# SAMPLE DELIVERY GROUP CASE NARRATIVE

**SDG#: E13-08996**

**PCB By 8082**

**Batch ID: 130916-07**

**Matrix: Soil**

**QC**

- Calibration Curve met QC criteria.
- Surrogate Percent Recovery met QC criteria.
- Method Blank met QC criteria.
- LCS Percent Recovery met QC criteria.
- MS/MSD Percent Recovery met QC criteria.
- RPD between MS/MSD met QC criteria.
- The following samples were cleaned up using method 3660B to remove sulfur: 001, 003, 004, 005, 006, 007, 008, 009

**E13-08996**

- All samples were extracted within holding time.
- All samples were analyzed within holding time.
- Retention Time Shift met QC criteria.
- Sample 001 was diluted 10x; 004 was diluted 2x. Both samples were diluted for target compound and did not pass NJ SRS limits. No dilution performed for samples 003,005-009.

  
Signature

E13-08996

9/17/2013

Date

0004

# SAMPLE DELIVERY GROUP CASE NARRATIVE

**SDG#: E13-08996**

**PCB By 8082**

**Batch ID: 130918-13**

**Matrix: Soil**

**QC**

- Calibration Curve met QC criteria.
- Surrogate Percent Recovery met QC criteria.
- Method Blank met QC criteria.
- LCS Percent Recovery met QC criteria.
- MS/MSD Percent Recovery met QC criteria.
- RPD between MS/MSD met QC criteria.
- The following samples were cleaned up using method 3660B to remove sulfur: 002

**E13-08996**

- All samples were extracted within holding time.
- All samples were analyzed within holding time.
- Retention Time Shift met QC criteria.
- No dilution performed for sample 002.

  
Signature

E13-08996

9/20/2013

Date

0005

# SAMPLE DELIVERY GROUP CASE NARRATIVE

**SDG#: E13-08996**

**PCB By 8082**

**Batch ID: 130913-07**

**Matrix: Aqueous**

- QC**
- Calibration Curve met QC criteria.
  - Surrogate Percent Recovery met QC criteria.
  - Method Blank met QC criteria.
  - LCS Percent Recovery met QC criteria.
  - MS/MSD Percent Recovery met QC criteria.
  - RPD between MS/MSD met QC criteria.
  - The following samples were cleaned up using method 3660B to remove sulfur: 010
  - The following samples were cleaned up using method 3665A: 010

- E13-08996**
- All samples were extracted within holding time.
  - All samples were analyzed within holding time.
  - Retention Time Shift met QC criteria.
  - No dilution was performed for sample 08996 -010.

*Nicah Koch* 01/16/2013

Signature Date  
E13-08996 0006

RESULTS SUMMARY REPORT

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**INTEGRATED ANALYTICAL LABORATORIES, LLC.**

**SUMMARY REPORT**

Client: JMC Environmental Consultants

Project: ARSYNCO

Lab Case No.: E13-08996

<b>Lab ID:</b>	<b>08996-010</b>
<b>Client ID:</b>	<b>FB-8</b>
<b>Matrix:</b>	<b>Aqueous</b>
<b>Sampled Date</b>	<b>9/12/13</b>
<b>PARAMETER(Units)</b>	<b>Conc Q MDL</b>
<b>PCB's (Units)</b>	<b>(mg/L-ppm)</b>
Aroclor-1016	ND 0.00002
Aroclor-1221	ND 0.00002
Aroclor-1232	ND 0.00002
Aroclor-1242	ND 0.00002
Aroclor-1248	ND 0.00002
Aroclor-1254	ND 0.00002
Aroclor-1260	ND 0.00002
Aroclor-1262	ND 0.00002
Aroclor-1268	ND 0.00002
PCBs	ND 0.00002

<b>Lab ID:</b>	<b>08996-001</b>	<b>08996-002</b>	<b>08996-003</b>	<b>08996-004</b>
<b>Client ID:</b>	<b>H-38S (0-2.0)</b>	<b>H-38S (2.0-4.0)</b>	<b>H-37W (2.0-4.0)</b>	<b>R-47R (0-1.0)</b>
<b>Depth:</b>	<b>0/2</b>	<b>2/4</b>	<b>2/4</b>	<b>0/1</b>
<b>Matrix:</b>	<b>Soil</b>	<b>Soil</b>	<b>Soil</b>	<b>Soil</b>
<b>Sampled Date</b>	<b>9/12/13</b>	<b>9/12/13</b>	<b>9/12/13</b>	<b>9/12/13</b>
<b>PARAMETER(Units)</b>	<b>Conc Q MDL</b>	<b>Conc Q MDL</b>	<b>Conc Q MDL</b>	<b>Conc Q MDL</b>
<b>PCB's (Units)</b>	<b>(mg/Kg-ppm)</b>	<b>(mg/Kg-ppm)</b>	<b>(mg/Kg-ppm)</b>	<b>(mg/Kg-ppm)</b>
Aroclor-1016	ND 0.029	ND 0.019	ND 0.019	ND 0.051
Aroclor-1221	ND 0.029	ND 0.019	ND 0.019	ND 0.051
Aroclor-1232	ND 0.029	ND 0.019	ND 0.019	ND 0.051
Aroclor-1242	ND 0.029	ND 0.019	ND 0.019	ND 0.051
Aroclor-1248	85.5 D 0.288	ND 0.019	0.174 0.019	35.5 D 0.102
Aroclor-1254	ND 0.029	ND 0.019	ND 0.019	30.4 D 0.102
Aroclor-1260	ND 0.029	ND 0.019	ND 0.019	ND 0.051
Aroclor-1262	ND 0.029	ND 0.019	ND 0.019	ND 0.051
Aroclor-1268	ND 0.029	ND 0.019	ND 0.019	ND 0.051
PCBs	85.5 D 0.288	ND 0.019	0.174 0.019	65.9 D 0.102

<b>Lab ID:</b>	<b>08996-005</b>	<b>08996-006</b>	<b>08996-007</b>	<b>08996-008</b>
<b>Client ID:</b>	<b>R-47R (1.0-2.0)</b>	<b>S-47 (0-1.0)</b>	<b>S-47 (1.0-2.0)</b>	<b>S-47 (2.0-3.0)</b>
<b>Depth:</b>	<b>1/2</b>	<b>0/1</b>	<b>1/2</b>	<b>2/3</b>
<b>Matrix:</b>	<b>Soil</b>	<b>Soil</b>	<b>Soil</b>	<b>Soil</b>
<b>Sampled Date</b>	<b>9/12/13</b>	<b>9/12/13</b>	<b>9/12/13</b>	<b>9/12/13</b>
<b>PARAMETER(Units)</b>	<b>Conc Q MDL</b>	<b>Conc Q MDL</b>	<b>Conc Q MDL</b>	<b>Conc Q MDL</b>
<b>PCB's (Units)</b>	<b>(mg/Kg-ppm)</b>	<b>(mg/Kg-ppm)</b>	<b>(mg/Kg-ppm)</b>	<b>(mg/Kg-ppm)</b>
Aroclor-1016	ND 0.078	ND 0.065	ND 0.075	ND 0.058
Aroclor-1221	ND 0.078	ND 0.065	ND 0.075	ND 0.058
Aroclor-1232	ND 0.078	ND 0.065	ND 0.075	ND 0.058
Aroclor-1242	ND 0.078	ND 0.065	ND 0.075	ND 0.058
Aroclor-1248	1.54 0.078	10.9 0.065	0.271 0.075	ND 0.058
Aroclor-1254	ND 0.078	10.5 0.065	ND 0.075	ND 0.058
Aroclor-1260	ND 0.078	ND 0.065	ND 0.075	ND 0.058
Aroclor-1262	ND 0.078	ND 0.065	ND 0.075	ND 0.058
Aroclor-1268	ND 0.078	ND 0.065	ND 0.075	ND 0.058
PCBs	1.54 0.078	21.4 0.065	0.271 0.075	ND 0.058

ND = Analyzed for but Not Detected at the MDL

D = The compound was reported from the Diluted analysis

**INTEGRATED ANALYTICAL LABORATORIES, LLC.**

**SUMMARY REPORT**

Client: JMC Environmental Consultants

Project: ARSYNCO

Lab Case No.: E13-08996

	<b>Lab ID:</b>	<b>08996-009</b>	
	<b>Client ID:</b>	<b>S-47 (3.0-4.0)</b>	
	<b>Depth:</b>	<b>3/4</b>	
	<b>Matrix:</b>	<b>Soil</b>	
	<b>Sampled Date</b>	<b>9/12/13</b>	
<b>PARAMETER(Units)</b>		<b>Conc</b>	<b>Q MDL</b>
<b>PCB's (Units)</b>		<b>(mg/Kg-ppm)</b>	
Aroclor-1016		ND	0.020
Aroclor-1221		ND	0.020
Aroclor-1232		ND	0.020
Aroclor-1242		ND	0.020
Aroclor-1248		ND	0.020
Aroclor-1254		ND	0.020
Aroclor-1260		ND	0.020
Aroclor-1262		ND	0.020
Aroclor-1268		ND	0.020
PCBs		ND	0.020

ND = Analyzed for but Not Detected at the MDL

D = The compound was reported from the Diluted analysis

ANALYTICAL RESULTS

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**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: 08996-001  
 Client ID: H-38S\_(0-2)  
 Date Received: 09/12/2013  
 Date Extracted: 09/16/2013  
 Date Analyzed: 09/16/2013  
 Data file: R4199.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.50g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 1  
 % Moisture: 49.5

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.072	0.029
Aroclor-1221	ND		0.072	0.029
Aroclor-1232	ND		0.072	0.029
Aroclor-1242	ND		0.072	0.029
Aroclor-1248	66.2	E	0.072	0.029
Aroclor-1254	ND		0.072	0.029
Aroclor-1260	ND		0.072	0.029
Aroclor-1262	ND		0.072	0.029
Aroclor-1268	ND		0.072	0.029
PCBs	66.2	E	0.072	0.029

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: 08996-001DL  
Client ID: H-38S\_(0-2)  
Date Received: 09/12/2013  
Date Extracted: 09/16/2013  
Date Analyzed: 09/17/2013  
Data file: R4216.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.50g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 10  
% Moisture: 49.5

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.720	0.288
Aroclor-1221	ND		0.720	0.288
Aroclor-1232	ND		0.720	0.288
Aroclor-1242	ND		0.720	0.288
Aroclor-1248	85.5	D	0.720	0.288
Aroclor-1254	ND		0.720	0.288
Aroclor-1260	ND		0.720	0.288
Aroclor-1262	ND		0.720	0.288
Aroclor-1268	ND		0.720	0.288
PCBs	85.5	D	0.720	0.288

D --- Dilution Performed  
J --- Value Less than RL & great than MDL  
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: 08996-002  
Client ID: H-38S\_(2.0)  
Date Received: 09/12/2013  
Date Extracted: 09/18/2013  
Date Analyzed: 09/19/2013  
Data file: R4271.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.64g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 23.8

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.047	0.019
Aroclor-1221	ND		0.047	0.019
Aroclor-1232	ND		0.047	0.019
Aroclor-1242	ND		0.047	0.019
Aroclor-1248	ND		0.047	0.019
Aroclor-1254	ND		0.047	0.019
Aroclor-1260	ND		0.047	0.019
Aroclor-1262	ND		0.047	0.019
Aroclor-1268	ND		0.047	0.019
PCBs	ND		0.047	0.019

D --- Dilution Performed  
J --- Value Less than RL & great than MDL  
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: 08996-003  
 Client ID: H-37W\_(2.0)  
 Date Received: 09/12/2013  
 Date Extracted: 09/16/2013  
 Date Analyzed: 09/17/2013  
 Data file: R4214.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.43g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 1  
 % Moisture: 23.0

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.048	0.019
Aroclor-1221	ND		0.048	0.019
Aroclor-1232	ND		0.048	0.019
Aroclor-1242	ND		0.048	0.019
Aroclor-1248	0.174		0.048	0.019
Aroclor-1254	ND		0.048	0.019
Aroclor-1260	ND		0.048	0.019
Aroclor-1262	ND		0.048	0.019
Aroclor-1268	ND		0.048	0.019
PCBs	0.174		0.048	0.019

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: 08996-004  
 Client ID: R-47R\_(0-1)  
 Date Received: 09/12/2013  
 Date Extracted: 09/16/2013  
 Date Analyzed: 09/16/2013  
 Data file: R4201.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.36g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 1  
 % Moisture: 70.6

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.127	0.051
Aroclor-1221	ND		0.127	0.051
Aroclor-1232	ND		0.127	0.051
Aroclor-1242	ND		0.127	0.051
Aroclor-1248	30.8	E	0.127	0.051
Aroclor-1254	26.6	E	0.127	0.051
Aroclor-1260	ND		0.127	0.051
Aroclor-1262	ND		0.127	0.051
Aroclor-1268	ND		0.127	0.051
PCBs	57.4	E	0.127	0.051

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: 08996-004DL  
 Client ID: R-47R\_(0-1)  
 Date Received: 09/12/2013  
 Date Extracted: 09/16/2013  
 Date Analyzed: 09/17/2013  
 Data file: R4215.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.36g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 2  
 % Moisture: 70.6

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.254	0.102
Aroclor-1221	ND		0.254	0.102
Aroclor-1232	ND		0.254	0.102
Aroclor-1242	ND		0.254	0.102
Aroclor-1248	35.5	D	0.254	0.102
Aroclor-1254	30.4	D	0.254	0.102
Aroclor-1260	ND		0.254	0.102
Aroclor-1262	ND		0.254	0.102
Aroclor-1268	ND		0.254	0.102
PCBs	65.9	D	0.254	0.102

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: 08996-005  
 Client ID: R-47R\_(1.0)  
 Date Received: 09/12/2013  
 Date Extracted: 09/16/2013  
 Date Analyzed: 09/16/2013  
 Data file: R4202.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.19g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 1  
 % Moisture: 80.3

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.196	0.078
Aroclor-1221	ND		0.196	0.078
Aroclor-1232	ND		0.196	0.078
Aroclor-1242	ND		0.196	0.078
Aroclor-1248	1.54		0.196	0.078
Aroclor-1254	ND		0.196	0.078
Aroclor-1260	ND		0.196	0.078
Aroclor-1262	ND		0.196	0.078
Aroclor-1268	ND		0.196	0.078
PCBs	1.54		0.196	0.078

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: 08996-006  
 Client ID: S-47\_(0-1.  
 Date Received: 09/12/2013  
 Date Extracted: 09/16/2013  
 Date Analyzed: 09/16/2013  
 Data file: R4203.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.30g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 1  
 % Moisture: 76.8

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.163	0.065
Aroclor-1221	ND		0.163	0.065
Aroclor-1232	ND		0.163	0.065
Aroclor-1242	ND		0.163	0.065
Aroclor-1248	10.9		0.163	0.065
Aroclor-1254	10.5		0.163	0.065
Aroclor-1260	ND		0.163	0.065
Aroclor-1262	ND		0.163	0.065
Aroclor-1268	ND		0.163	0.065
<b>PCBs</b>	<b>21.4</b>		<b>0.163</b>	<b>0.065</b>

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: 08996-007  
 Client ID: S-47\_(1.0-  
 Date Received: 09/12/2013  
 Date Extracted: 09/16/2013  
 Date Analyzed: 09/16/2013  
 Data file: R4204.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.21g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 1  
 % Moisture: 79.5

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.187	0.075
Aroclor-1221	ND		0.187	0.075
Aroclor-1232	ND		0.187	0.075
Aroclor-1242	ND		0.187	0.075
Aroclor-1248	0.271		0.187	0.075
Aroclor-1254	ND		0.187	0.075
Aroclor-1260	ND		0.187	0.075
Aroclor-1262	ND		0.187	0.075
Aroclor-1268	ND		0.187	0.075
PCBs	0.271		0.187	0.075

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: 08996-008  
 Client ID: S-47\_(2.0-  
 Date Received: 09/12/2013  
 Date Extracted: 09/16/2013  
 Date Analyzed: 09/16/2013  
 Data file: R4205.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.06g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 1  
 % Moisture: 72.5

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.144	0.058
Aroclor-1221	ND		0.144	0.058
Aroclor-1232	ND		0.144	0.058
Aroclor-1242	ND		0.144	0.058
Aroclor-1248	ND		0.144	0.058
Aroclor-1254	ND		0.144	0.058
Aroclor-1260	ND		0.144	0.058
Aroclor-1262	ND		0.144	0.058
Aroclor-1268	ND		0.144	0.058
PCBs	ND		0.144	0.058

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: 08996-009  
Client ID: S-47\_(3.0-  
Date Received: 09/12/2013  
Date Extracted: 09/16/2013  
Date Analyzed: 09/16/2013  
Data file: R4206.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.36g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 26.5

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.051	0.020
Aroclor-1221	ND		0.051	0.020
Aroclor-1232	ND		0.051	0.020
Aroclor-1242	ND		0.051	0.020
Aroclor-1248	ND		0.051	0.020
Aroclor-1254	ND		0.051	0.020
Aroclor-1260	ND		0.051	0.020
Aroclor-1262	ND		0.051	0.020
Aroclor-1268	ND		0.051	0.020
PCBs	ND		0.051	0.020

D --- Dilution Performed  
J --- Value Less than RL & great than MDL  
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: 08996-010

Client ID: FB-8

Date Received: 09/12/2013

Date Extracted: 09/13/2013

Date Analyzed: 09/16/2013

Data file: Y1670.D

GC Column: DB-5/DB1701P

Sample wt/vol: 1000ml

Matrix-Units: Aqueous-mg/L (ppm)

Dilution Factor: 1

% Moisture: 100

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.00005	0.00002
Aroclor-1221	ND		0.00005	0.00002
Aroclor-1232	ND		0.00005	0.00002
Aroclor-1242	ND		0.00005	0.00002
Aroclor-1248	ND		0.00005	0.00002
Aroclor-1254	ND		0.00005	0.00002
Aroclor-1260	ND		0.00005	0.00002
Aroclor-1262	ND		0.00005	0.00002
Aroclor-1268	ND		0.00005	0.00002
PCBs	ND		0.00005	0.00002

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

PCB DATA

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PCB QC SUMMARY

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**PCB SURROGATE PERCENT RECOVERY SUMMARY**

**Date Analyzed:**     09/16/2013

Client ID	Lab Sample ID	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
			% rec	#	% rec	#	% rec	#	% rec	#
PCB	BLKS130916-07	SOIL	77		83		90		96	
PCB	LCSS130916-07	SOIL	79		90		91		102	
SW-1A	08987-001	SOIL	62		97		64		105	
SW-1B	08987-002	SOIL	67		115		73		123	
SW-2A	08987-003	SOIL	78		85		89		98	
SW-2B	08987-004	SOIL	79		86		90		99	
SW-3A	08987-005	SOIL	65		100		68		105	
SW-3B	08987-006	SOIL	63		94		68		103	
B-4B	08987-007	SOIL	67		94		73		104	
BS-5	08987-008	SOIL	66		94		72		105	
BS-6	08987-009	SOIL	61		94		67		106	
H-38S_(0-2	08996-001	SOIL	82		110		89		106	
R-47R_(0-1	08996-004	SOIL	96		119		110		149	
R-47R_(1.0	08996-005	SOIL	105		133		121		131	
S-47_(0-1.	08996-006	SOIL	101		113		116		130	
S-47_(1.0-	08996-007	SOIL	105		133		124		136	
S-47_(2.0-	08996-008	SOIL	103		128		121		128	
S-47_(3.0-	08996-009	SOIL	88		136		102		121	
SED-1/0-0.	08999-001	SOIL	88		91		101		105	
SED-2/0-0.	08999-002	SOIL	86		105		99		120	
SED-3/0-0.	08999-003	SOIL	88		111		102		103	
PCB	08987-001MS	SOIL	62		96		64		105	
PCB	08987-001MSD	SOIL	63		103		65		115	

Surrogate QC Limits

**TCMX = Tetrachloro-m-xylene**

**DCB = Decachlorobiphenyl**

Soil

30-150

30-150

Aqueous

30-150

30-150

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

**PCB SURROGATE PERCENT RECOVERY SUMMARY**

**Date Analyzed:**     09/16/2013

<b>Client ID</b>	<b>Lab Sample ID</b>	<b>Matrix</b>	<b>TCMX 1</b>		<b>DCB 1</b>		<b>TCMX 2</b>		<b>DCB 2</b>	
			<b>% rec</b>	<b>#</b>	<b>% rec</b>	<b>#</b>	<b>% rec</b>	<b>#</b>	<b>% rec</b>	<b>#</b>
PCB	BLKS130916-07	SOIL	77		83		90		96	
H-37W_(2.0	08996-003	SOIL	87		107		100		123	
R-47R_(0-1	08996-004DL	SOIL	105		130		121		125	
H-38S_(0-2	08996-001DL	SOIL	98		90		101		133	

Surrogate QC Limits	<u>Soil</u>	<u>Aqueous</u>
<b>TCMX = Tetrachloro-m-xylene</b>	30-150	30-150
<b>DCB = Decachlorobiphenyl</b>	30-150	30-150

# Column to be used to flag recovery values  
\* Values outside of QC limits  
D Surrogate diluted out  
M Matrix interference

**PCB SURROGATE PERCENT RECOVERY SUMMARY**

**Date Analyzed:**     09/16/2013

Client ID	Lab	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
	Sample ID		% rec	#	% rec	#	% rec	#	% rec	#
PCB	BLKA130913-07	AQUEOUS	65		66		69		62	
PCB	LCSA130913-07	AQUEOUS	66		73		60		73	
TWP-1	08859-027	AQUEOUS	64		75		59		78	
FB_(091013	08906-009	AQUEOUS	69		72		63		77	
FB-7	08939-007	AQUEOUS	69		73		63		79	
FB-8	08996-010	AQUEOUS	62		66		57		71	

Surrogate QC Limits

**TCMX = Tetrachloro-m-xylene**

**DCB = Decachlorobiphenyl**

Soil

30-150

30-150

Aqueous

30-150

30-150

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

**PCB SURROGATE PERCENT RECOVERY SUMMARY**

**Date Analyzed:**     09/19/2013

Client ID	Lab	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
	Sample ID		% rec	#	% rec	#	% rec	#	% rec	#
PCB	BLKS130918-13	SOIL	83		102		99		124	
PCB	LCSS130918-13	SOIL	82		102		99		123	
SW-1	08988-001	SOIL	81		99		97		129	
SW-2	08988-002	SOIL	69		93		81		119	
SW-3	08988-003	SOIL	78		96		92		144	
SW-4	08988-004	SOIL	75		97		89		120	
B-5	08988-005	SOIL	82		97		97		108	
H-38S_(2.0	08996-002	SOIL	92		104		109		122	
S-1	09163-001	SOIL	81		94		97		116	
SW-1	09158-001	SOIL	81		90		97		109	
SW-2	09158-002	SOIL	85		102		101		117	
SW-3	09158-003	SOIL	83		95		98		111	
SW-4	09158-004	SOIL	82		91		97		101	
SW-5	09158-005	SOIL	86		104		102		120	
SW-6	09158-006	SOIL	82		100		99		107	
SW-7	09158-007	SOIL	84		111		97		125	
SW-8	09158-008	SOIL	84		133		97		140	
S-1	09159-001	SOIL	83		86		97		107	
S-2	09159-002	SOIL	82		87		97		102	
S-3	09159-003	SOIL	84		88		100		100	
S-4	09159-004	SOIL	83		112		98		120	
S-5	09159-005	SOIL	83		99		98		105	
PCB	09159-001MS	SOIL	84		111		98		103	
PCB	09159-001MSD	SOIL	84		108		100		105	

Surrogate QC Limits

**TCMX = Tetrachloro-m-xylene**

**DCB = Decachlorobiphenyl**

Soil

30-150

30-150

Aqueous

30-150

30-150

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

**SOIL PCB LCS ACCURACY RECOVERY**

Matrix spike Lab sample ID:

LCSS130916-07

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
<b>Aroclor-1016</b>	500.0	0.0	528.1	106	40 - 140
<b>Aroclor-1260</b>	500.0	0.0	567.6	114	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

Spike Recovery:   0   out of   2   outside limits

**AQUEOUS PCB LCS ACCURACY RECOVERY**

Matrix spike Lab sample ID: LCSA130913-07

Compound	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	MS CONC. (ug/L)	MS % REC #	QC LIMITS REC.
<b>Aroclor-1016</b>	500.0	0.0	389.7	78	40 - 140
<b>Aroclor-1260</b>	500.0	0.0	411.0	82	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

Spike Recovery:   0   out of   2   outside limits

**SOIL PCB LCS ACCURACY RECOVERY**

Matrix spike Lab sample ID:

LCSS130918-13

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
<b>Aroclor-1016</b>	500.0	0.0	555.3	111	40 - 140
<b>Aroclor-1260</b>	500.0	0.0	642.2	128	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

Spike Recovery:   0   out of   2   outside limits

**SOIL PCB MS/MSD ACCURACY RECOVERY**

Matrix spike Lab sample ID: 08987-001

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
<b>Aroclor-1016</b>	500.0	0.0	391.9	78	40 - 140
<b>Aroclor-1260</b>	500.0	0.0	490.7	98	40 - 140

Compound	SAMPLE CONC. (ug/Kg)	MSD CONC. (ug/Kg)	MSD		QC LIMITS	
			#	% REC	RPD	REC.
<b>Aroclor-1016</b>	0.0	403.7	81	4	50	40 - 140
<b>Aroclor-1260</b>	0.0	520.9	104	6	50	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

**AQUEOUS PCB MS/MSD ACCURACY RECOVERY**

Matrix spike Lab sample ID: 08681-007

Compound	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	MS CONC. (ug/L)	MS % REC #	QC LIMITS REC.
<b>Aroclor-1016</b>	500.0	0.0	397.4	79	40 - 140
<b>Aroclor-1260</b>	500.0	0.0	373.0	75	40 - 140

Compound	SAMPLE CONC. (ug/L)	MSD CONC. (ug/L)	MSD		QC LIMITS	
			#	% REC	% RPD #	RPD
<b>Aroclor-1016</b>	0.0	398.4	80	1	50	40 - 140
<b>Aroclor-1260</b>	0.0	375.4	75	0	50	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

**SOIL PCB MS/MSD ACCURACY RECOVERY**

Matrix spike Lab sample ID: 09159-001

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
<b>Aroclor-1016</b>	500.0	0.0	521.9	104	40 - 140
<b>Aroclor-1260</b>	500.0	0.0	567.4	113	40 - 140

Compound	SAMPLE CONC. (ug/Kg)	MSD CONC. (ug/Kg)	MSD % # REC	% RPD #	QC LIMITS	
					RPD	REC.
<b>Aroclor-1016</b>	0.0	528.3	106	2	50	40 - 140
<b>Aroclor-1260</b>	0.0	560.0	112	1	50	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

**PCB METHOD BLANK SUMMARY**

Lab File ID: R4187.D Instrument ID: GC-R  
Date Extracted: 09/16/2013 Matrix: SOIL  
Date Analyzed: 09/16/2013 Time Analyzed: 15:31

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

<b>Client ID</b>	<b>Lab Sample ID</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>
PCB	LCSS130916-07	09/16/2013	15:48
SW-1A	08987-001	09/16/2013	16:05
SW-1B	08987-002	09/16/2013	16:23
SW-2A	08987-003	09/16/2013	16:40
SW-2B	08987-004	09/16/2013	16:58
SW-3A	08987-005	09/16/2013	17:15
SW-3B	08987-006	09/16/2013	17:33
B-4B	08987-007	09/16/2013	17:50
BS-5	08987-008	09/16/2013	18:08
BS-6	08987-009	09/16/2013	18:25
H-38S_(0-2	08996-001	09/16/2013	20:10
R-47R_(0-1	08996-004	09/16/2013	20:44
R-47R_(1.0	08996-005	09/16/2013	21:02
S-47_(0-1.	08996-006	09/16/2013	21:19
S-47_(1.0-	08996-007	09/16/2013	21:37
S-47_(2.0-	08996-008	09/16/2013	21:54
S-47_(3.0-	08996-009	09/16/2013	22:12
SED-1/0-0.	08999-001	09/16/2013	22:29
SED-2/0-0.	08999-002	09/16/2013	22:47
SED-3/0-0.	08999-003	09/16/2013	23:04
PCB	08987-001MS	09/16/2013	23:21
PCB	08987-001MSD	09/16/2013	23:39

**PCB METHOD BLANK SUMMARY**

Lab File ID: R4187.D Instrument ID: GC-R  
Date Extracted: 09/16/2013 Matrix: SOIL  
Date Analyzed: 09/16/2013 Time Analyzed: 15:31

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

<b>Client ID</b>	<b>Lab Sample ID</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>
H-37W_(2.0	08996-003	09/17/2013	09:19
R-47R_(0-1	08996-004DL	09/17/2013	09:36
H-38S_(0-2	08996-001DL	09/17/2013	09:54

PCB METHOD BLANK SUMMARY

Lab File ID: Y1572.D

Instrument ID: GC-Y

Date Extracted: 09/06/2013

Matrix: AQUEOUS

Date Analyzed: 09/06/2013

Time Analyzed: 19:41

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

<u>Client ID</u>	<u>Lab Sample ID</u>	<u>Date Analyzed</u>	<u>Time Analyzed</u>
PCB	LCSA130906-10	09/06/2013	19:58
TW-3/8.29	08681-007	09/06/2013	20:15
PCB	08681-007MS	09/06/2013	20:33
PCB	08681-007MSD	09/06/2013	20:50
FB_9	08733-018	09/06/2013	21:08
FB	08664-009	09/06/2013	21:43
TW-6/8.4	08681-010	09/06/2013	22:00
FB	08732-017	09/06/2013	22:17
FB_10	08733-019	09/09/2013	10:59

**PCB METHOD BLANK SUMMARY**

Lab File ID: Y1665.D

Instrument ID: GC-Y

Date Extracted: 09/13/2013

Matrix: AQUEOUS

Date Analyzed: 09/16/2013

Time Analyzed: 09:40

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

<b>Client ID</b>	<b>Lab Sample ID</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>
PCB	LCSA130913-07	09/16/2013	09:58
TWP-1	08859-027	09/16/2013	10:15
FB_(091013	08906-009	09/16/2013	10:32
FB-7	08939-007	09/16/2013	10:50
FB-8	08996-010	09/16/2013	11:07

**PCB METHOD BLANK SUMMARY**

Lab File ID: R4263.D Instrument ID: GC-R  
Date Extracted: 09/18/2013 Matrix: SOIL  
Date Analyzed: 09/19/2013 Time Analyzed: 09:32

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

<b>Client ID</b>	<b>Lab Sample ID</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>
PCB	LCSS130918-13	09/19/2013	09:49
SW-1	08988-001	09/19/2013	10:15
SW-2	08988-002	09/19/2013	11:38
SW-3	08988-003	09/19/2013	11:56
SW-4	08988-004	09/19/2013	12:13
B-5	08988-005	09/19/2013	12:31
H-38S_(2.0	08996-002	09/19/2013	13:05
S-1	09163-001	09/19/2013	13:23
SW-1	09158-001	09/19/2013	13:40
SW-2	09158-002	09/19/2013	13:58
SW-3	09158-003	09/19/2013	14:15
SW-4	09158-004	09/19/2013	14:33
SW-5	09158-005	09/19/2013	14:50
SW-6	09158-006	09/19/2013	15:08
SW-7	09158-007	09/19/2013	15:26
SW-8	09158-008	09/19/2013	15:43
S-1	09159-001	09/19/2013	16:01
S-2	09159-002	09/19/2013	16:18
S-3	09159-003	09/19/2013	16:36
S-4	09159-004	09/19/2013	16:53
S-5	09159-005	09/19/2013	17:10
PCB	09159-001MS	09/19/2013	17:28
PCB	09159-001MSD	09/19/2013	17:45

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013

Instrument ID: GC-Y

GC Column (1st): DB-5

Data File: Y1369.D Y1368.D Y1367.D Y1366.D Y1365.D

Compound	RT OF STANDARDS					MEAN RT	RT WI N DOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.22	3.22	3.22	3.22	3.22	3.22	3.15	3.29
Aroclor-1016 {2}	4.05	4.05	4.05	4.05	4.05	4.05	3.98	4.12
Aroclor-1016 {3}	4.60	4.60	4.59	4.60	4.59	4.60	4.53	4.67
Aroclor-1016 {4}	5.10	5.10	5.10	5.10	5.10	5.10	5.03	5.17
Aroclor-1016 {5}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.14				2.07	2.21
Aroclor-1221 {2}			3.02				2.95	3.09
Aroclor-1221 {3}			3.15				3.08	3.22
Aroclor-1221 {4}			3.23				3.16	3.30
Aroclor-1221 {5}			3.81				3.74	3.88
Aroclor-1232			3.23				3.16	3.30
Aroclor-1232 {2}			4.05				3.98	4.12
Aroclor-1232 {3}			4.71				4.64	4.78
Aroclor-1232 {4}			5.30				5.23	5.37
Aroclor-1232 {5}			5.49				5.42	5.56
Aroclor-1242			4.05				3.98	4.12
Aroclor-1242 {2}			4.98				4.91	5.05
Aroclor-1242 {3}			5.30				5.23	5.37
Aroclor-1242 {4}			5.99				5.92	6.06
Aroclor-1242 {5}			6.26				6.19	6.33
Aroclor-1248			4.44				4.36	4.52
Aroclor-1248 {2}			4.98				4.90	5.06
Aroclor-1248 {3}			5.30				5.22	5.38
Aroclor-1248 {4}			5.99				5.91	6.07
Aroclor-1248 {5}			6.26				6.18	6.34
Aroclor-1254			6.39				6.31	6.47
Aroclor-1254 {2}			6.82				6.74	6.90
Aroclor-1254 {3}			6.98				6.89	7.07
Aroclor-1254 {4}			7.42				7.33	7.51
Aroclor-1254 {5}			8.26				8.17	8.35
Aroclor-1260	8.26	8.26	8.26	8.26	8.26	8.26	7.36	9.16
Aroclor-1260 {2}	8.93	8.93	8.93	8.93	8.93	8.93	8.03	9.83
Aroclor-1260 {3}	9.41	9.41	9.40	9.41	9.41	9.41	8.51	10.31
Aroclor-1260 {4}	9.89	9.89	9.88	9.88	9.88	9.89	8.99	10.79
Aroclor-1260 {5}	10.95	10.94	10.94	10.94	10.94	10.95	10.05	11.85

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013

Instrument ID: GC-Y

GC Column (1st): DB-5

Data File: Y1369.D Y1368.D Y1367.D Y1366.D Y1365.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	442872	449696	379176	364486	333780	394002	12.82
Aroclor-1016 {2}	637980	646721	523413	504620	465115	555570	14.76
Aroclor-1016 {3}	819727	794313	667109	648875	597542	705513	13.68
Aroclor-1016 {4}	393090	399504	331361	313397	287389	344948	14.34
Aroclor-1016 {5}	673709	664692	551367	533368	493081	583244	13.94
Aroclor-1221			186101				
Aroclor-1221 {2}			294424				
Aroclor-1221 {3}			190735				
Aroclor-1221 {4}			630298				
Aroclor-1221 {5}			145988				
Aroclor-1232			465157				
Aroclor-1232 {2}			280444				
Aroclor-1232 {3}			245917				
Aroclor-1232 {4}			273710				
Aroclor-1232 {5}			343890				
Aroclor-1242			431707				
Aroclor-1242 {2}			282594				
Aroclor-1242 {3}			384491				
Aroclor-1242 {4}			544086				
Aroclor-1242 {5}			490947				
Aroclor-1248			995074				
Aroclor-1248 {2}			599312				
Aroclor-1248 {3}			763326				
Aroclor-1248 {4}			1151800				
Aroclor-1248 {5}			912619				
Aroclor-1254			955181				
Aroclor-1254 {2}			758585				
Aroclor-1254 {3}			1359294				
Aroclor-1254 {4}			1488155				
Aroclor-1254 {5}			1345205				
Aroclor-1260	1954781	1818985	1606562	1575893	1447259	1680696	12.09
Aroclor-1260 {2}	952595	900012	764747	746661	685051	809813	13.82
Aroclor-1260 {3}	2085741	2020600	1847262	1819225	1667953	1888156	8.84
Aroclor-1260 {4}	1107549	1059258	1004689	992751	905699	1013989	7.49
Aroclor-1260 {5}	499488	454534	431960	451703	396982	446933	8.34
<b>Average %RSD</b>							<b>12.01</b>

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013

Instrument ID: GC-Y

GC Column (2nd): DB-1701P

Data File: Y1369.C Y1368.C Y1367.C Y1366.C Y1365.C

Compound	RT OF STANDARDS					MEAN RT	RT WI N DOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.76	3.76	3.76	3.76	3.76	3.76	3.69	3.83
Aroclor-1016 {2}	4.36	4.36	4.36	4.36	4.36	4.36	4.29	4.43
Aroclor-1016 {3}	5.11	5.11	5.11	5.11	5.11	5.11	5.04	5.18
Aroclor-1016 {4}	5.32	5.32	5.32	5.32	5.32	5.32	5.25	5.39
Aroclor-1016 {5}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.44				2.37	2.51
Aroclor-1221 {2}			3.44				3.37	3.51
Aroclor-1221 {3}			3.67				3.60	3.74
Aroclor-1221 {4}			3.76				3.69	3.83
Aroclor-1221 {5}			5.11				5.04	5.18
Aroclor-1232			3.76				3.69	3.83
Aroclor-1232 {2}			4.74				4.67	4.81
Aroclor-1232 {3}			5.32				5.25	5.39
Aroclor-1232 {4}			5.49				5.42	5.56
Aroclor-1232 {5}			6.09				6.02	6.16
Aroclor-1242			4.74				4.67	4.81
Aroclor-1242 {2}			5.49				5.42	5.56
Aroclor-1242 {3}			6.09				6.02	6.16
Aroclor-1242 {4}			6.32				6.25	6.39
Aroclor-1242 {5}			6.79				6.72	6.86
Aroclor-1248			5.11				5.03	5.19
Aroclor-1248 {2}			5.69				5.61	5.77
Aroclor-1248 {3}			6.09				6.01	6.17
Aroclor-1248 {4}			6.32				6.24	6.40
Aroclor-1248 {5}			6.59				6.51	6.67
Aroclor-1254			7.09				7.01	7.17
Aroclor-1254 {2}			7.67				7.59	7.75
Aroclor-1254 {3}			8.28				8.19	8.37
Aroclor-1254 {4}			8.51				8.42	8.60
Aroclor-1254 {5}			9.10				9.01	9.19
Aroclor-1260	7.85	7.85	7.85	7.85	7.85	7.85	6.95	8.75
Aroclor-1260 {2}	8.11	8.11	8.11	8.11	8.11	8.11	7.21	9.01
Aroclor-1260 {3}	9.70	9.70	9.70	9.70	9.70	9.70	8.80	10.60
Aroclor-1260 {4}	10.20	10.20	10.20	10.20	10.20	10.20	9.30	11.10
Aroclor-1260 {5}	10.79	10.79	10.79	10.79	10.79	10.79	9.89	11.69

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013

Instrument ID: GC-Y  
GC Column (2nd): DB-1701P

Data File: Y1369.C Y1368.C Y1367.C Y1366.C Y1365.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	908117	917641	794280	748278	660849	805833	13.51
Aroclor-1016 {2}	2010158	2072787	1829192	1747486	1577287	1847382	10.85
Aroclor-1016 {3}	4546148	4490124	4032861	3894702	3518203	4096408	10.47
Aroclor-1016 {4}	1987331	1976457	1770492	1718714	1557858	1802170	10.09
Aroclor-1016 {5}	1521339	1510944	1381256	1347534	1226462	1397507	8.78
Aroclor-1221			334600				
Aroclor-1221 {2}			584487				
Aroclor-1221 {3}			371889				
Aroclor-1221 {4}			1294455				
Aroclor-1221 {5}			285942				
Aroclor-1232			1109109				
Aroclor-1232 {2}			424107				
Aroclor-1232 {3}			920122				
Aroclor-1232 {4}			711509				
Aroclor-1232 {5}			969910				
Aroclor-1242			671924				
Aroclor-1242 {2}			1126011				
Aroclor-1242 {3}			1484895				
Aroclor-1242 {4}			274584				
Aroclor-1242 {5}			2371853				
Aroclor-1248			2536841				
Aroclor-1248 {2}			3830804				
Aroclor-1248 {3}			2762787				
Aroclor-1248 {4}			147659				
Aroclor-1248 {5}			1343717				
Aroclor-1254			3130572				
Aroclor-1254 {2}			2443480				
Aroclor-1254 {3}			2412423				
Aroclor-1254 {4}			1351538				
Aroclor-1254 {5}			3377514				
Aroclor-1260	1768490	1786131	1597667	1542745	1399117	1618830	10.00
Aroclor-1260 {2}	2522852	2584383	2271290	2188854	1984622	2310400	10.66
Aroclor-1260 {3}	2180151	2121304	2010909	1979566	1800269	2018440	7.26
Aroclor-1260 {4}	4155485	4495323	4451244	4472511	4070134	4328939	4.62
Aroclor-1260 {5}	2959142	3176946	3182464	3283751	2944346	3109330	4.83
Average %RSD							9.11

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013

Instrument ID: GC-Y

GC Column (1st): DB-5

Data File: Y1369.D Y1368.D Y1367.D Y1366.D Y1365.D

Compound	RT OF STANDARDS					MEAN RT	RT WI NDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			8.55				8.43	8.67
Aroclor-1262 {2}			9.41				9.29	9.53
Aroclor-1262 {3}			10.04				9.92	10.16
Aroclor-1262 {4}			10.13				10.01	10.25
Aroclor-1262 {5}			10.94				10.82	11.06
Aroclor-1268			10.04				9.92	10.16
Aroclor-1268 {2}			10.12				10.00	10.24
Aroclor-1268 {3}			10.59				10.47	10.71
Aroclor-1268 {4}			11.55				11.43	11.67
Aroclor-1268 {5}			12.04				11.92	12.16

GC Column (2nd): DB-1701P

Data File: Y1369.C Y1368.C Y1367.C Y1366.C Y1365.C

Compound	RT OF STANDARDS					MEAN RT	RT WI NDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			9.70				9.58	9.82
Aroclor-1262 {2}			10.20				10.08	10.32
Aroclor-1262 {3}			10.70				10.58	10.82
Aroclor-1262 {4}			10.79				10.67	10.91
Aroclor-1262 {5}			11.39				11.27	11.51
Aroclor-1268			10.78				10.66	10.90
Aroclor-1268 {2}			10.78				10.66	10.90
Aroclor-1268 {3}			11.03				10.91	11.15
Aroclor-1268 {4}			12.25				12.13	12.37
Aroclor-1268 {5}			12.48				12.36	12.60

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013 Instrument ID: GC-Y  
 GC Column (1st): DB-5

Data File: Y1369.D Y1368.D Y1367.D Y1366.D Y1365.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			1387775				
Aroclor-1262 {2}			2648425				
Aroclor-1262 {3}			1040298				
Aroclor-1262 {4}			1134807				
Aroclor-1262 {5}			894133				
Aroclor-1268			2587189				
Aroclor-1268 {2}			2672004				
Aroclor-1268 {3}			2236567				
Aroclor-1268 {4}			6553869				
Aroclor-1268 {5}			3725214				

GC Column (2nd): DB-1701P

Data File: Y1369.C Y1368.C Y1367.C Y1366.C Y1365.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			3008098				
Aroclor-1262 {2}			6793066				
Aroclor-1262 {3}			2444772				
Aroclor-1262 {4}			4727992				
Aroclor-1262 {5}			887184				
Aroclor-1268			7276612				
Aroclor-1268 {2}			7276612				
Aroclor-1268 {3}			6109954				
Aroclor-1268 {4}			18240097				
Aroclor-1268 {5}			10434054				

## AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 09/16/2013

Instrument ID: GC-Y

Data File: Y1664.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.22	3.15	3.29	394002	414717	5.26
Aroclor-1016 {2}	4.04	3.98	4.12	555570	566310	1.93
Aroclor-1016 {3}	4.59	4.53	4.67	705513	717190	1.66
Aroclor-1016 {4}	5.09	5.03	5.17	344948	367650	6.58
Aroclor-1016 {5}	5.49	5.42	5.56	583244	600009	2.87
Aroclor-1260	8.26	7.36	9.16	1680696	1724599	2.61
Aroclor-1260 {2}	8.93	8.03	9.83	809813	826640	2.08
Aroclor-1260 {3}	9.40	8.51	10.31	1888156	1944298	2.97
Aroclor-1260 {4}	9.88	8.99	10.79	1013989	1065175	5.05
Aroclor-1260 {5}	10.94	10.05	11.85	446933	463210	3.64

Data File: Y1664.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.77	3.69	3.83	805833	958365	18.93
Aroclor-1016 {2}	4.37	4.29	4.43	1847382	1856048	0.47
Aroclor-1016 {3}	5.12	5.04	5.18	4096408	4126649	0.74
Aroclor-1016 {4}	5.33	5.25	5.39	1802170	1815501	0.74
Aroclor-1016 {5}	5.50	5.42	5.56	1397507	1416355	1.35
Aroclor-1260	7.86	6.95	8.75	1618830	1620351	0.09
Aroclor-1260 {2}	8.11	7.21	9.01	2310400	2306273	0.18
Aroclor-1260 {3}	9.70	8.80	10.60	2018440	1979184	1.94
Aroclor-1260 {4}	10.21	9.30	11.10	4328939	4359616	0.71
Aroclor-1260 {5}	10.79	9.89	11.69	3109330	3068266	1.32

## AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 09/16/2013

Instrument ID: GC-Y

Data File: Y1671.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.15	3.29	394002	413227	4.88
Aroclor-1016 {2}	4.05	3.98	4.12	555570	563737	1.47
Aroclor-1016 {3}	4.60	4.53	4.67	705513	722668	2.43
Aroclor-1016 {4}	5.10	5.03	5.17	344948	365547	5.97
Aroclor-1016 {5}	5.49	5.42	5.56	583244	602343	3.27
Aroclor-1260	8.26	7.36	9.16	1680696	1778071	5.79
Aroclor-1260 {2}	8.93	8.03	9.83	809813	853243	5.36
Aroclor-1260 {3}	9.41	8.51	10.31	1888156	2055077	8.84
Aroclor-1260 {4}	9.89	8.99	10.79	1013989	1145124	12.93
Aroclor-1260 {5}	10.95	10.05	11.85	446933	501915	12.30

Data File: Y1671.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	805833	784364	2.66
Aroclor-1016 {2}	4.36	4.29	4.43	1847382	1508721	18.33
Aroclor-1016 {3}	5.11	5.04	5.18	4096408	3983462	2.76
Aroclor-1016 {4}	5.32	5.25	5.39	1802170	1756244	2.55
Aroclor-1016 {5}	5.49	5.42	5.56	1397507	1372131	1.82
Aroclor-1260	7.85	6.95	8.75	1618830	1609034	0.61
Aroclor-1260 {2}	8.11	7.21	9.01	2310400	2311533	0.05
Aroclor-1260 {3}	9.70	8.80	10.60	2018440	2093234	3.71
Aroclor-1260 {4}	10.20	9.30	11.10	4328939	4761600	9.99
Aroclor-1260 {5}	10.79	9.89	11.69	3109330	3430494	10.33

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013

Instrument ID: GC-R

GC Column (1st): DB-5

Data File: R3851.D R3850.D R3849.D R3848.D R3847.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.21	3.21	3.21	3.21	3.20	3.21	3.14	3.28
Aroclor-1016 {2}	4.04	4.04	4.04	4.04	4.03	4.04	3.97	4.11
Aroclor-1016 {3}	4.59	4.59	4.59	4.59	4.59	4.59	4.52	4.66
Aroclor-1016 {4}	5.10	5.10	5.10	5.10	5.10	5.10	5.03	5.17
Aroclor-1016 {5}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.12				2.05	2.19
Aroclor-1221 {2}			3.01				2.94	3.08
Aroclor-1221 {3}			3.13				3.06	3.20
Aroclor-1221 {4}			3.21				3.14	3.28
Aroclor-1221 {5}			3.80				3.73	3.87
Aroclor-1232			3.21				3.14	3.28
Aroclor-1232 {2}			4.04				3.97	4.11
Aroclor-1232 {3}			4.70				4.63	4.77
Aroclor-1232 {4}			5.30				5.23	5.37
Aroclor-1232 {5}			5.49				5.42	5.56
Aroclor-1242			4.04				3.97	4.11
Aroclor-1242 {2}			4.98				4.91	5.05
Aroclor-1242 {3}			5.30				5.23	5.37
Aroclor-1242 {4}			6.00				5.93	6.07
Aroclor-1242 {5}			6.27				6.20	6.34
Aroclor-1248			4.44				4.36	4.52
Aroclor-1248 {2}			4.98				4.90	5.06
Aroclor-1248 {3}			5.30				5.22	5.38
Aroclor-1248 {4}			6.00				5.92	6.08
Aroclor-1248 {5}			6.27				6.19	6.35
Aroclor-1254			6.39				6.31	6.47
Aroclor-1254 {2}			6.83				6.75	6.91
Aroclor-1254 {3}			7.00				6.91	7.09
Aroclor-1254 {4}			7.45				7.36	7.54
Aroclor-1254 {5}			8.29				8.20	8.38
Aroclor-1260	8.29	8.29	8.29	8.29	8.29	8.29	7.39	9.19
Aroclor-1260 {2}	8.97	8.96	8.96	8.96	8.96	8.96	8.06	9.86
Aroclor-1260 {3}	9.45	9.45	9.44	9.44	9.44	9.45	8.55	10.35
Aroclor-1260 {4}	9.94	9.93	9.93	9.93	9.93	9.93	9.03	10.83
Aroclor-1260 {5}	11.00	11.00	11.00	10.99	10.99	11.00	10.10	11.90

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013

Instrument ID: GC-R

GC Column (1st): DB-5

Data File: R3851.D R3850.D R3849.D R3848.D R3847.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	243865	216790	199305	183366	184539	205573	12.32
Aroclor-1016 {2}	329663	293312	273907	254375	251534	280558	11.48
Aroclor-1016 {3}	421622	378312	356112	329359	325022	362086	10.95
Aroclor-1016 {4}	196004	176563	161796	145945	139733	164008	13.98
Aroclor-1016 {5}	322251	290331	282382	257409	252936	281062	9.96
Aroclor-1221			98455				
Aroclor-1221 {2}			147422				
Aroclor-1221 {3}			104493				
Aroclor-1221 {4}			357450				
Aroclor-1221 {5}			79152				
Aroclor-1232			248609				
Aroclor-1232 {2}			144312				
Aroclor-1232 {3}			125680				
Aroclor-1232 {4}			141484				
Aroclor-1232 {5}			176247				
Aroclor-1242			232340				
Aroclor-1242 {2}			149217				
Aroclor-1242 {3}			212227				
Aroclor-1242 {4}			308432				
Aroclor-1242 {5}			255832				
Aroclor-1248			550496				
Aroclor-1248 {2}			319120				
Aroclor-1248 {3}			418121				
Aroclor-1248 {4}			650924				
Aroclor-1248 {5}			480676				
Aroclor-1254			627382				
Aroclor-1254 {2}			399643				
Aroclor-1254 {3}			752699				
Aroclor-1254 {4}			788362				
Aroclor-1254 {5}			705322				
Aroclor-1260	757128	754434	788799	691182	715219	741352	5.17
Aroclor-1260 {2}	377531	353479	367477	314922	322854	347253	7.89
Aroclor-1260 {3}	833253	861623	929397	797453	840707	852487	5.73
Aroclor-1260 {4}	442035	422694	469045	403585	434405	434353	5.57
Aroclor-1260 {5}	232694	194352	209736	173881	171745	196482	13.01
<b>Average %RSD</b>							<b>9.61</b>

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013

Instrument ID: GC-R  
GC Column (2nd): DB-1701P

Data File: R3851.C R3850.C R3849.C R3848.C R3847.C

Compound	RT OF STANDARDS					MEAN RT	RT WI NDO W	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.38	3.38	3.38	3.38	3.39	3.38	3.31	3.45
Aroclor-1016 {2}	3.94	3.94	3.94	3.94	3.96	3.94	3.87	4.01
Aroclor-1016 {3}	4.66	4.66	4.66	4.66	4.67	4.66	4.59	4.73
Aroclor-1016 {4}	4.86	4.86	4.86	4.86	4.87	4.86	4.79	4.93
Aroclor-1016 {5}	5.03	5.03	5.03	5.03	5.04	5.03	4.96	5.10
Aroclor-1221			2.17				2.10	2.24
Aroclor-1221 {2}			3.08				3.01	3.15
Aroclor-1221 {3}			3.29				3.22	3.36
Aroclor-1221 {4}			3.38				3.31	3.45
Aroclor-1221 {5}			4.66				4.59	4.73
Aroclor-1232			3.38				3.31	3.45
Aroclor-1232 {2}			4.31				4.24	4.38
Aroclor-1232 {3}			4.86				4.79	4.93
Aroclor-1232 {4}			5.03				4.96	5.10
Aroclor-1232 {5}			5.61				5.54	5.68
Aroclor-1242			4.31				4.24	4.38
Aroclor-1242 {2}			5.03				4.96	5.10
Aroclor-1242 {3}			5.61				5.54	5.68
Aroclor-1242 {4}			5.76				5.69	5.83
Aroclor-1242 {5}			6.30				6.23	6.37
Aroclor-1248			4.66				4.58	4.74
Aroclor-1248 {2}			5.22				5.14	5.30
Aroclor-1248 {3}			5.61				5.53	5.69
Aroclor-1248 {4}			5.76				5.68	5.84
Aroclor-1248 {5}			6.11				6.03	6.19
Aroclor-1254			6.59				6.51	6.67
Aroclor-1254 {2}			7.17				7.09	7.25
Aroclor-1254 {3}			7.60				7.51	7.69
Aroclor-1254 {4}			7.78				7.69	7.87
Aroclor-1254 {5}			8.59				8.50	8.68
Aroclor-1260	7.35	7.35	7.35	7.35	7.36	7.35	6.45	8.25
Aroclor-1260 {2}	7.60	7.60	7.60	7.60	7.61	7.60	6.70	8.50
Aroclor-1260 {3}	9.18	9.18	9.18	9.18	9.19	9.18	8.28	10.08
Aroclor-1260 {4}	9.69	9.69	9.69	9.69	9.70	9.69	8.79	10.59
Aroclor-1260 {5}	10.28	10.28	10.28	10.27	10.28	10.28	9.38	11.18

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013

Instrument ID: GC-R  
GC Column (2nd): DB-1701P

Data File: R3851.C R3850.C R3849.C R3848.C R3847.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	362241	319133	272025	248097	250722	290444	16.94
Aroclor-1016 {2}	743962	638498	551705	509099	507402	590133	17.13
Aroclor-1016 {3}	1634305	1339093	1240491	1157160	1153188	1304848	15.26
Aroclor-1016 {4}	640757	532369	529369	479376	469296	530233	12.83
Aroclor-1016 {5}	511215	424107	401382	365779	361833	412863	14.71
Aroclor-1221			133932				
Aroclor-1221 {2}			198787				
Aroclor-1221 {3}			133461				
Aroclor-1221 {4}			484806				
Aroclor-1221 {5}			92989				
Aroclor-1232			337701				
Aroclor-1232 {2}			127755				
Aroclor-1232 {3}			282764				
Aroclor-1232 {4}			212621				
Aroclor-1232 {5}			294142				
Aroclor-1242			199335				
Aroclor-1242 {2}			339120				
Aroclor-1242 {3}			443826				
Aroclor-1242 {4}			366761				
Aroclor-1242 {5}			720540				
Aroclor-1248			766481				
Aroclor-1248 {2}			1140084				
Aroclor-1248 {3}			814777				
Aroclor-1248 {4}			687633				
Aroclor-1248 {5}			406423				
Aroclor-1254			915839				
Aroclor-1254 {2}			721245				
Aroclor-1254 {3}			474223				
Aroclor-1254 {4}			703201				
Aroclor-1254 {5}			1013959				
Aroclor-1260	585399	517611	452177	396373	395981	469508	17.43
Aroclor-1260 {2}	883662	775223	680288	591735	587886	703758	17.97
Aroclor-1260 {3}	674621	625967	589609	507374	529398	585394	11.73
Aroclor-1260 {4}	1367534	1326755	1291089	1100209	1160368	1249191	9.12
Aroclor-1260 {5}	929561	946699	919373	778085	827578	880259	8.35
<b>Average %RSD</b>							<b>14.15</b>

## AROCOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013

Instrument ID: GC-R

GC Column (1st): DB-5

Data File: R3851.D R3850.D R3849.D R3848.D R3847.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			8.66				8.54	8.78
Aroclor-1262 {2}			9.45				9.33	9.57
Aroclor-1262 {3}			10.08				9.96	10.20
Aroclor-1262 {4}			10.16				10.04	10.28
Aroclor-1262 {5}			11.00				10.88	11.12
Aroclor-1268			10.08				9.96	10.20
Aroclor-1268 {2}			10.16				10.04	10.28
Aroclor-1268 {3}			10.63				10.51	10.75
Aroclor-1268 {4}			10.76				10.64	10.88
Aroclor-1268 {5}			11.60				11.48	11.72

GC Column (2nd): DB-1701P

Data File: R3851.C R3850.C R3849.C R3848.C R3847.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			9.18				9.06	9.30
Aroclor-1262 {2}			9.69				9.57	9.81
Aroclor-1262 {3}			10.18				10.06	10.30
Aroclor-1262 {4}			10.27				10.15	10.39
Aroclor-1262 {5}			10.87				10.75	10.99
Aroclor-1268			10.18				10.06	10.30
Aroclor-1268 {2}			10.26				10.14	10.38
Aroclor-1268 {3}			10.51				10.39	10.63
Aroclor-1268 {4}			10.65				10.53	10.77
Aroclor-1268 {5}			11.73				11.61	11.85

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013

Instrument ID: GC-R

GC Column (1st): DB-5

Data File: R3851.D R3850.D R3849.D R3848.D R3847.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			326215				
Aroclor-1262 {2}			1281764				
Aroclor-1262 {3}			491930				
Aroclor-1262 {4}			563512				
Aroclor-1262 {5}			432239				
Aroclor-1268			1292652				
Aroclor-1268 {2}			1452313				
Aroclor-1268 {3}			1123481				
Aroclor-1268 {4}			297485				
Aroclor-1268 {5}			3490031				

GC Column (2nd): DB-1701P

Data File: R3851.C R3850.C R3849.C R3848.C R3847.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			817810				
Aroclor-1262 {2}			1844146				
Aroclor-1262 {3}			599368				
Aroclor-1262 {4}			1277066				
Aroclor-1262 {5}			225009				
Aroclor-1268			1847615				
Aroclor-1268 {2}			1965341				
Aroclor-1268 {3}			1551936				
Aroclor-1268 {4}			432171				
Aroclor-1268 {5}			4623946				

## AROCOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 09/16/2013 Instrument ID: GC-R

Data File: R4186.D GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.21	3.14	3.28	205573	196725	4.30
Aroclor-1016 {2}	4.04	3.97	4.11	280558	261885	6.66
Aroclor-1016 {3}	4.59	4.52	4.66	362086	334667	7.57
Aroclor-1016 {4}	5.10	5.03	5.17	164008	160732	2.00
Aroclor-1016 {5}	5.50	5.42	5.56	281062	257153	8.51
Aroclor-1260	8.30	7.39	9.19	741352	673086	9.21
Aroclor-1260 {2}	8.97	8.06	9.86	347253	308517	11.15
Aroclor-1260 {3}	9.45	8.55	10.35	852487	787701	7.60
Aroclor-1260 {4}	9.94	9.03	10.83	434353	391420	9.88
Aroclor-1260 {5}	11.00	10.10	11.90	196482	203358	3.50

Data File: R4186.C GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.39	3.31	3.45	290444	312875	7.72
Aroclor-1016 {2}	3.95	3.87	4.01	590133	615302	4.26
Aroclor-1016 {3}	4.67	4.59	4.73	1304848	1347902	3.30
Aroclor-1016 {4}	4.87	4.79	4.93	530233	571222	7.73
Aroclor-1016 {5}	5.04	4.96	5.10	412863	433242	4.94
Aroclor-1260	7.36	6.45	8.25	469508	454186	3.26
Aroclor-1260 {2}	7.61	6.70	8.50	703758	682589	3.01
Aroclor-1260 {3}	9.19	8.28	10.08	585394	568091	2.96
Aroclor-1260 {4}	9.70	8.79	10.59	1249191	1225600	1.89
Aroclor-1260 {5}	10.28	9.38	11.18	880259	869736	1.20

## AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 09/16/2013 Instrument ID: GC-R

Data File: R4198.D GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.21	3.14	3.28	205573	201002	2.22
Aroclor-1016 {2}	4.04	3.97	4.11	280558	266244	5.10
Aroclor-1016 {3}	4.59	4.52	4.66	362086	341228	5.76
Aroclor-1016 {4}	5.10	5.03	5.17	164008	160084	2.39
Aroclor-1016 {5}	5.50	5.42	5.56	281062	260953	7.15
Aroclor-1260	8.30	7.39	9.19	741352	692430	6.60
Aroclor-1260 {2}	8.97	8.06	9.86	347253	317288	8.63
Aroclor-1260 {3}	9.45	8.55	10.35	852487	814610	4.44
Aroclor-1260 {4}	9.94	9.03	10.83	434353	423808	2.43
Aroclor-1260 {5}	11.00	10.10	11.90	196482	193881	1.32

Data File: R4198.C GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.38	3.31	3.45	290444	313418	7.91
Aroclor-1016 {2}	3.94	3.87	4.01	590133	617088	4.57
Aroclor-1016 {3}	4.66	4.59	4.73	1304848	1357741	4.05
Aroclor-1016 {4}	4.86	4.79	4.93	530233	562097	6.01
Aroclor-1016 {5}	5.03	4.96	5.10	412863	427375	3.52
Aroclor-1260	7.35	6.45	8.25	469508	513310	9.33
Aroclor-1260 {2}	7.60	6.70	8.50	703758	674384	4.17
Aroclor-1260 {3}	9.18	8.28	10.08	585394	599537	2.42
Aroclor-1260 {4}	9.69	8.79	10.59	1249191	1276280	2.17
Aroclor-1260 {5}	10.27	9.38	11.18	880259	907213	3.06

## AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 09/17/2013

Instrument ID: GC-R

Data File: R4212.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.21	3.14	3.28	205573	191343	6.92
Aroclor-1016 {2}	4.04	3.97	4.11	280558	253166	9.76
Aroclor-1016 {3}	4.59	4.52	4.66	362086	323073	10.77
Aroclor-1016 {4}	5.10	5.03	5.17	164008	149017	9.14
Aroclor-1016 {5}	5.50	5.42	5.56	281062	244920	12.86
Aroclor-1260	8.29	7.39	9.19	741352	623507	15.90
Aroclor-1260 {2}	8.97	8.06	9.86	347253	302501	12.89
Aroclor-1260 {3}	9.45	8.55	10.35	852487	724210	15.05
Aroclor-1260 {4}	9.93	9.03	10.83	434353	369619	14.90
Aroclor-1260 {5}	11.00	10.10	11.90	196482	190753	2.92

Data File: R4212.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.38	3.31	3.45	290444	302787	4.25
Aroclor-1016 {2}	3.94	3.87	4.01	590133	598773	1.46
Aroclor-1016 {3}	4.66	4.59	4.73	1304848	1306941	0.16
Aroclor-1016 {4}	4.86	4.79	4.93	530233	549847	3.70
Aroclor-1016 {5}	5.03	4.96	5.10	412863	414084	0.30
Aroclor-1260	7.35	6.45	8.25	469508	430761	8.25
Aroclor-1260 {2}	7.60	6.70	8.50	703758	633499	9.98
Aroclor-1260 {3}	9.18	8.28	10.08	585394	517857	11.54
Aroclor-1260 {4}	9.68	8.79	10.59	1249191	1122615	10.13
Aroclor-1260 {5}	10.27	9.38	11.18	880259	791861	10.04

## AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 09/17/2013

Instrument ID: GC-R

Data File: R4213.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.21	3.14	3.28	205573	204007	0.76
Aroclor-1016 {2}	4.04	3.97	4.11	280558	269128	4.07
Aroclor-1016 {3}	4.59	4.52	4.66	362086	342157	5.50
Aroclor-1016 {4}	5.10	5.03	5.17	164008	156747	4.43
Aroclor-1016 {5}	5.49	5.42	5.56	281062	258929	7.87
Aroclor-1260	8.29	7.39	9.19	741352	733120	1.11
Aroclor-1260 {2}	8.97	8.06	9.86	347253	335265	3.45
Aroclor-1260 {3}	9.44	8.55	10.35	852487	810564	4.92
Aroclor-1260 {4}	9.93	9.03	10.83	434353	407786	6.12
Aroclor-1260 {5}	10.99	10.10	11.90	196482	187858	4.39

Data File: R4213.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.39	3.31	3.45	290444	330724	13.87
Aroclor-1016 {2}	3.95	3.87	4.01	590133	650506	10.23
Aroclor-1016 {3}	4.67	4.59	4.73	1304848	1421108	8.91
Aroclor-1016 {4}	4.87	4.79	4.93	530233	592760	11.79
Aroclor-1016 {5}	5.04	4.96	5.10	412863	451089	9.26
Aroclor-1260	7.35	6.45	8.25	469508	480612	2.36
Aroclor-1260 {2}	7.61	6.70	8.50	703758	720287	2.35
Aroclor-1260 {3}	9.18	8.28	10.08	585394	625277	6.81
Aroclor-1260 {4}	9.69	8.79	10.59	1249191	1275740	2.13
Aroclor-1260 {5}	10.27	9.38	11.18	880259	905444	2.86

## AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 09/17/2013

Instrument ID: GC-R

Data File: R4217.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.21	3.14	3.28	205573	210292	2.30
Aroclor-1016 {2}	4.04	3.97	4.11	280558	278761	0.64
Aroclor-1016 {3}	4.59	4.52	4.66	362086	359783	0.64
Aroclor-1016 {4}	5.10	5.03	5.17	164008	169908	3.60
Aroclor-1016 {5}	5.50	5.42	5.56	281062	276617	1.58
Aroclor-1260	8.30	7.39	9.19	741352	735052	0.85
Aroclor-1260 {2}	8.97	8.06	9.86	347253	336310	3.15
Aroclor-1260 {3}	9.45	8.55	10.35	852487	866595	1.65
Aroclor-1260 {4}	9.94	9.03	10.83	434353	432233	0.49
Aroclor-1260 {5}	11.00	10.10	11.90	196482	194135	1.19

Data File: R4217.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.38	3.31	3.45	290444	336305	15.79
Aroclor-1016 {2}	3.94	3.87	4.01	590133	664157	12.54
Aroclor-1016 {3}	4.66	4.59	4.73	1304848	1470630	12.71
Aroclor-1016 {4}	4.86	4.79	4.93	530233	613371	15.68
Aroclor-1016 {5}	5.03	4.96	5.10	412863	467957	13.34
Aroclor-1260	7.35	6.45	8.25	469508	502609	7.05
Aroclor-1260 {2}	7.60	6.70	8.50	703758	749797	6.54
Aroclor-1260 {3}	9.18	8.28	10.08	585394	624737	6.72
Aroclor-1260 {4}	9.69	8.79	10.59	1249191	1398590	11.96
Aroclor-1260 {5}	10.27	9.38	11.18	880259	997720	13.34

## AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 09/19/2013

Instrument ID: GC-R

Data File: R4262.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.21	3.14	3.28	205573	188825	8.15
Aroclor-1016 {2}	4.04	3.97	4.11	280558	254281	9.37
Aroclor-1016 {3}	4.59	4.52	4.66	362086	330499	8.72
Aroclor-1016 {4}	5.10	5.03	5.17	164008	159193	2.94
Aroclor-1016 {5}	5.50	5.42	5.56	281062	259632	7.62
Aroclor-1260	8.29	7.39	9.19	741352	719989	2.88
Aroclor-1260 {2}	8.97	8.06	9.86	347253	331762	4.46
Aroclor-1260 {3}	9.45	8.55	10.35	852487	865121	1.48
Aroclor-1260 {4}	9.94	9.03	10.83	434353	436802	0.56
Aroclor-1260 {5}	11.00	10.10	11.90	196482	198618	1.09

Data File: R4262.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.38	3.31	3.45	290444	308452	6.20
Aroclor-1016 {2}	3.94	3.87	4.01	590133	611989	3.70
Aroclor-1016 {3}	4.66	4.59	4.73	1304848	1367246	4.78
Aroclor-1016 {4}	4.86	4.79	4.93	530233	590049	11.28
Aroclor-1016 {5}	5.03	4.96	5.10	412863	445910	8.00
Aroclor-1260	7.35	6.45	8.25	469508	500988	6.70
Aroclor-1260 {2}	7.60	6.70	8.50	703758	756659	7.52
Aroclor-1260 {3}	9.18	8.28	10.08	585394	657430	12.31
Aroclor-1260 {4}	9.69	8.79	10.59	1249191	1463102	17.12
Aroclor-1260 {5}	10.27	9.38	11.18	880259	1043924	18.59

**AROCLOR CALIBRATION VERIFICATION SUMMARY**

Date/Time Analyzed: 09/19/2013

Instrument ID: GC-R

Data File: R4270.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.21	3.14	3.28	205573	180687	12.11
Aroclor-1016 {2}	4.04	3.97	4.11	280558	242025	13.73
Aroclor-1016 {3}	4.59	4.52	4.66	362086	313775	13.34
Aroclor-1016 {4}	5.10	5.03	5.17	164008	148310	9.57
Aroclor-1016 {5}	5.50	5.42	5.56	281062	242995	13.54
Aroclor-1260	8.30	7.39	9.19	741352	662446	10.64
Aroclor-1260 {2}	8.97	8.06	9.86	347253	303905	12.48
Aroclor-1260 {3}	9.45	8.55	10.35	852487	788770	7.47
Aroclor-1260 {4}	9.94	9.03	10.83	434353	404584	6.85
Aroclor-1260 {5}	11.00	10.10	11.90	196482	186742	4.96

Data File: R4270.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.38	3.31	3.45	290444	294039	1.24
Aroclor-1016 {2}	3.94	3.87	4.01	590133	581519	1.46
Aroclor-1016 {3}	4.66	4.59	4.73	1304848	1287323	1.34
Aroclor-1016 {4}	4.86	4.79	4.93	530233	546480	3.06
Aroclor-1016 {5}	5.03	4.96	5.10	412863	414390	0.37
Aroclor-1260	7.35	6.45	8.25	469508	436232	7.09
Aroclor-1260 {2}	7.60	6.70	8.50	703758	674259	4.19
Aroclor-1260 {3}	9.18	8.28	10.08	585394	605498	3.43
Aroclor-1260 {4}	9.69	8.79	10.59	1249191	1337394	7.06
Aroclor-1260 {5}	10.27	9.38	11.18	880259	913423	3.77

## AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 09/19/2013

Instrument ID: GC-R

Data File: R4288.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.21	3.14	3.28	205573	186669	9.20
Aroclor-1016 {2}	4.04	3.97	4.11	280558	247662	11.73
Aroclor-1016 {3}	4.60	4.52	4.66	362086	317666	12.27
Aroclor-1016 {4}	5.10	5.03	5.17	164008	150387	8.31
Aroclor-1016 {5}	5.50	5.42	5.56	281062	241735	13.99
Aroclor-1260	8.30	7.39	9.19	741352	630460	14.96
Aroclor-1260 {2}	8.97	8.06	9.86	347253	285695	17.73
Aroclor-1260 {3}	9.45	8.55	10.35	852487	761113	10.72
Aroclor-1260 {4}	9.94	9.03	10.83	434353	386146	11.10
Aroclor-1260 {5}	11.00	10.10	11.90	196482	222992	13.49

Data File: R4288.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.38	3.31	3.45	290444	304864	4.96
Aroclor-1016 {2}	3.94	3.87	4.01	590133	599523	1.59
Aroclor-1016 {3}	4.66	4.59	4.73	1304848	1317022	0.93
Aroclor-1016 {4}	4.86	4.79	4.93	530233	556597	4.97
Aroclor-1016 {5}	5.03	4.96	5.10	412863	420916	1.95
Aroclor-1260	7.35	6.45	8.25	469508	505088	7.58
Aroclor-1260 {2}	7.60	6.70	8.50	703758	661851	5.95
Aroclor-1260 {3}	9.18	8.28	10.08	585394	555800	5.06
Aroclor-1260 {4}	9.69	8.79	10.59	1249191	1247520	0.13
Aroclor-1260 {5}	10.27	9.38	11.18	880259	907434	3.09

**PCB RETENTION TIME SHIFT SUMMARY**

**Instrument ID:** GC-Y

**Column:** DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1     2.76                      DCB 1     12.04     TCMX 2     2.89                      DCB 2     12.48

Client ID	Lab	Date	Time	TCMX 1		DCB 1		TCMX 2		DCB 2	
	Sample ID	Analyzed	Analyzed	RT	#	RT	#	RT	#	RT	#
PCB	BLKA130913-07	09/16/2013	09:40	2.76		12.04		2.89		12.48	
PCB	LCSA130913-07	09/16/2013	09:58	2.77		12.04		2.89		12.47	
TWP-1	08859-027	09/16/2013	10:15	2.77		12.04		2.89		12.48	
FB_(091013	08906-009	09/16/2013	10:32	2.77		12.04		2.89		12.48	
FB-7	08939-007	09/16/2013	10:50	2.77		12.04		2.89		12.48	
FB-8	08996-010	09/16/2013	11:07	2.77		12.04		2.89		12.47	

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene                      ( ± 0.10 Minutes )

DCB = Decachlorobiphenyl                      ( ± 0.10 Minutes )

- # Column to be used to flag recovery values
- \* Values outside of QC limits
- D Surrogate diluted out
- M Matrix interference

**PCB RETENTION TIME SHIFT SUMMARY**

**Instrument ID:** GC-R

**Column:** DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1     2.74                      DCB 1     12.09     TCMX 2     2.58                      DCB 2     11.95

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCMX 1 RT	#	DCB 1 RT	#	TCMX 2 RT	#	DCB 2 RT	#
PCB	BLKS130916-07	09/16/2013	15:31	2.74		12.09		2.58		11.95	
PCB	LCSS130916-07	09/16/2013	15:48	2.74		12.09		2.57		11.95	
SW-1A	08987-001	09/16/2013	16:05	2.75		12.09		2.57		11.94	
SW-1B	08987-002	09/16/2013	16:23	2.75		12.09		2.57		11.94	
SW-2A	08987-003	09/16/2013	16:40	2.75		12.09		2.57		11.94	
SW-2B	08987-004	09/16/2013	16:58	2.75		12.09		2.57		11.95	
SW-3A	08987-005	09/16/2013	17:15	2.75		12.09		2.57		11.94	
SW-3B	08987-006	09/16/2013	17:33	2.75		12.09		2.57		11.94	
B-4B	08987-007	09/16/2013	17:50	2.75		12.09		2.57		11.94	
BS-5	08987-008	09/16/2013	18:08	2.75		12.09		2.57		11.94	
BS-6	08987-009	09/16/2013	18:25	2.75		12.09		2.57		11.94	
H-38S_(0-2	08996-001	09/16/2013	20:10	2.75		12.09		2.57		11.93	
R-47R_(0-1	08996-004	09/16/2013	20:44	2.75		12.09		2.57		11.94	
R-47R_(1.0	08996-005	09/16/2013	21:02	2.75		12.09		2.57		11.94	
S-47_(0-1.	08996-006	09/16/2013	21:19	2.75		12.09		2.57		11.94	
S-47_(1.0-	08996-007	09/16/2013	21:37	2.75		12.09		2.57		11.94	
S-47_(2.0-	08996-008	09/16/2013	21:54	2.75		12.09		2.57		11.94	
S-47_(3.0-	08996-009	09/16/2013	22:12	2.75		12.09		2.57		11.94	
SED-1/0-0.	08999-001	09/16/2013	22:29	2.75		12.09		2.57		11.94	
SED-2/0-0.	08999-002	09/16/2013	22:47	2.75		12.09		2.57		11.94	
SED-3/0-0.	08999-003	09/16/2013	23:04	2.75		12.09		2.57		11.94	
PCB	08987-001MS	09/16/2013	23:21	2.75		12.08		2.57		11.94	
PCB	08987-001MSD	09/16/2013	23:39	2.75		12.08		2.57		11.94	

Surrogate QC Limits

**TCMX = Tetrachloro-m-xylene**                      ( ± 0.10 Minutes )

**DCB = Decachlorobiphenyl**                      ( ± 0.10 Minutes )

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

**PCB RETENTION TIME SHIFT SUMMARY**

**Instrument ID:** GC-R

**Column:** DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1     2.74                      DCB 1     12.09     TCMX 2     2.58                      DCB 2     11.95

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCMX 1 RT #	DCB 1 RT #	TCMX 2 RT #	DCB 2 RT #
PCB	BLKS130916-07	09/16/2013	15:31	2.74	12.09	2.58	11.95
H-37W_(2.0	08996-003	09/17/2013	09:19	2.74	12.09	2.58	11.95
R-47R_(0-1	08996-004DL	09/17/2013	09:36	2.75	12.08	2.57	11.94
H-38S_(0-2	08996-001DL	09/17/2013	09:54	2.75	12.08	2.57	11.93

Surrogate QC Limits

**TCMX = Tetrachloro-m-xylene**                      ( ± 0.10 Minutes )

**DCB = Decachlorobiphenyl**                      ( ± 0.10 Minutes )

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

**PCB RETENTION TIME SHIFT SUMMARY**

**Instrument ID:** GC-R

**Column:** DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1    2.74                      DCB 1    12.09    TCMX 2    2.57                      DCB 2    11.94

Client ID	Lab	Date	Time	TCMX 1	DCB 1	TCMX 2	DCB 2
	Sample ID	Analyzed	Analyzed	RT #	RT #	RT #	RT #
PCB	BLKS130918-13	09/19/2013	09:32	2.74	12.09	2.57	11.94
PCB	LCSS130918-13	09/19/2013	09:49	2.74	12.09	2.57	11.95
SW-1	08988-001	09/19/2013	10:15	2.74	12.09	2.58	11.95
SW-2	08988-002	09/19/2013	11:38	2.74	12.09	2.58	11.95
SW-3	08988-003	09/19/2013	11:56	2.74	12.08	2.57	11.94
SW-4	08988-004	09/19/2013	12:13	2.74	12.08	2.57	11.94
B-5	08988-005	09/19/2013	12:31	2.74	12.09	2.57	11.94
H-38S_(2.0	08996-002	09/19/2013	13:05	2.74	12.09	2.57	11.94
S-1	09163-001	09/19/2013	13:23	2.74	12.09	2.57	11.94
SW-1	09158-001	09/19/2013	13:40	2.74	12.09	2.57	11.94
SW-2	09158-002	09/19/2013	13:58	2.74	12.09	2.57	11.94
SW-3	09158-003	09/19/2013	14:15	2.74	12.09	2.57	11.94
SW-4	09158-004	09/19/2013	14:33	2.74	12.09	2.57	11.94
SW-5	09158-005	09/19/2013	14:50	2.74	12.09	2.57	11.94
SW-6	09158-006	09/19/2013	15:08	2.74	12.09	2.57	11.94
SW-7	09158-007	09/19/2013	15:26	2.75	12.08	2.57	11.94
SW-8	09158-008	09/19/2013	15:43	2.75	12.09	2.57	11.94
S-1	09159-001	09/19/2013	16:01	2.75	12.09	2.57	11.94
S-2	09159-002	09/19/2013	16:18	2.75	12.09	2.57	11.94
S-3	09159-003	09/19/2013	16:36	2.75	12.09	2.57	11.94
S-4	09159-004	09/19/2013	16:53	2.75	12.09	2.57	11.95
S-5	09159-005	09/19/2013	17:10	2.75	12.09	2.57	11.94
PCB	09159-001MS	09/19/2013	17:28	2.75	12.09	2.57	11.94
PCB	09159-001MSD	09/19/2013	17:45	2.75	12.09	2.57	11.94

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene                      ( ± 0.10 Minutes )

DCB = Decachlorobiphenyl                              ( ± 0.10 Minutes )

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

PCB SAMPLE DATA

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Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : R4199.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 20:10  
 Operator : JS  
 Sample : H-38S\_(0-2,08996-001,S,5.50g,49.5,09/16/13,4  
 Misc : 130916-07,09/12/13,09/12/13,1  
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 11:15:03 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

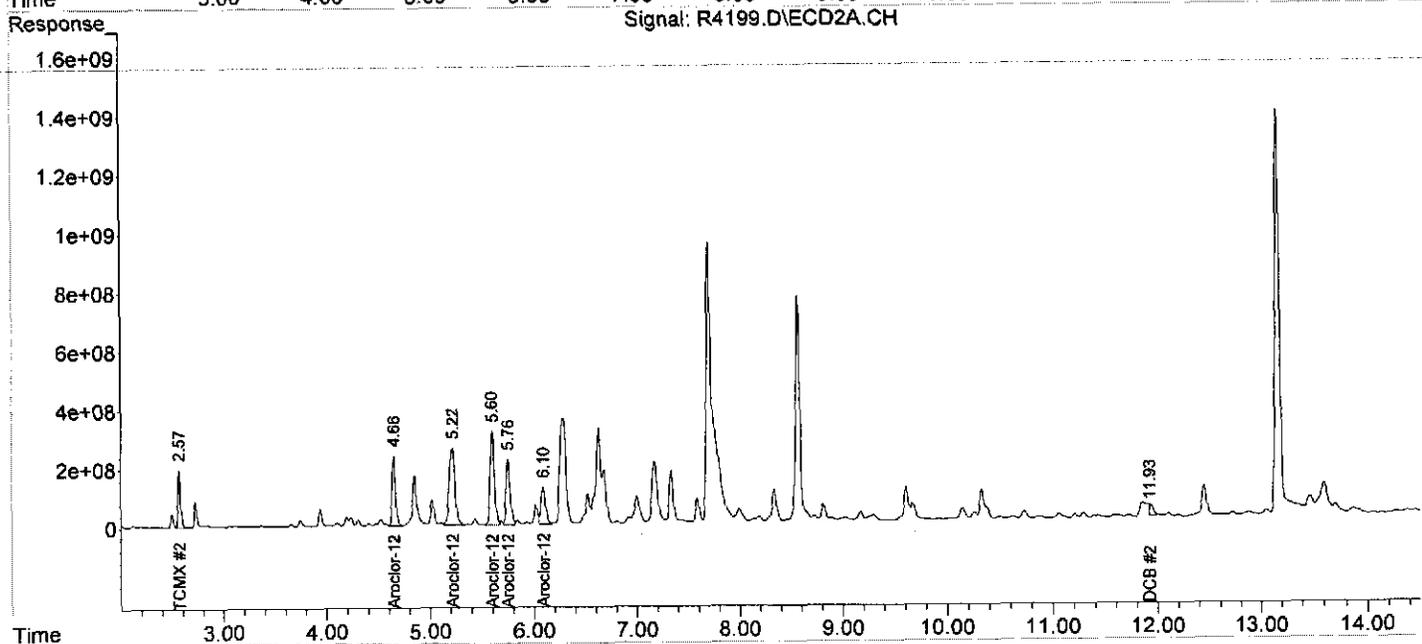
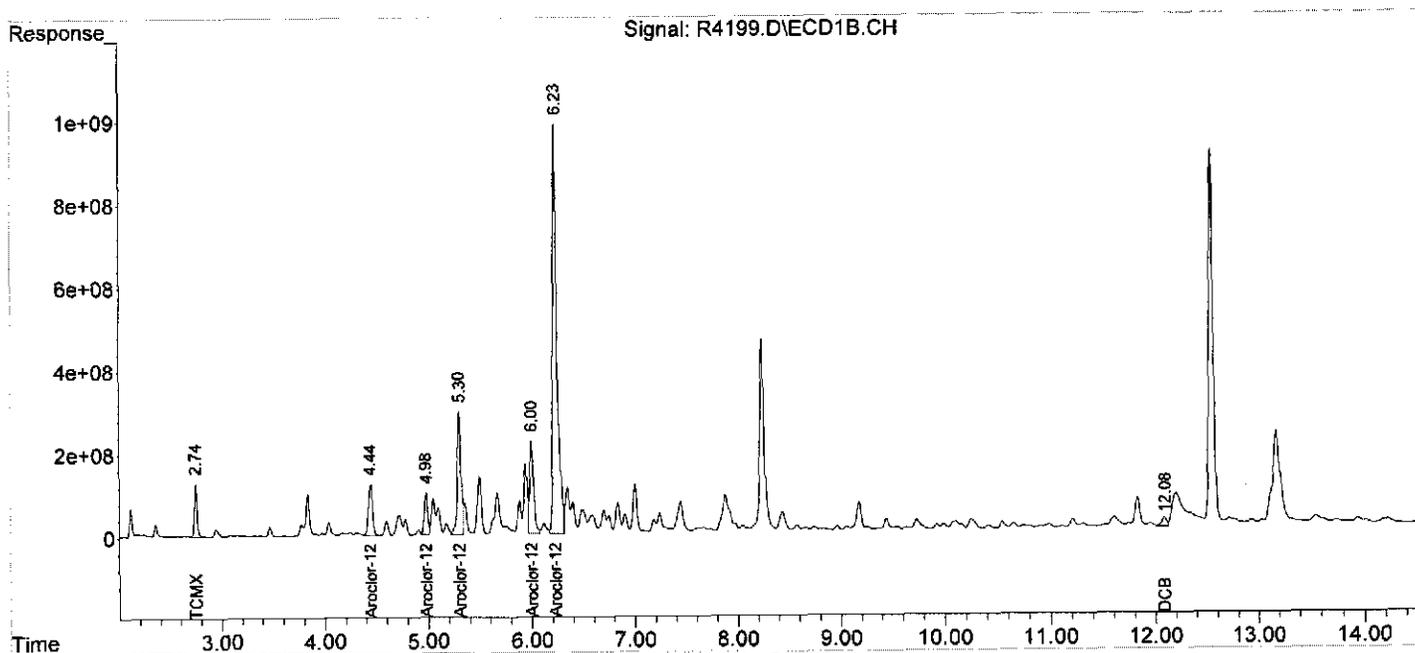
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----						
System Monitoring Compounds						
1) S TCMX	2.75	2.57	2294.2E6	3570.2E6	163.507	178.082
Spiked Amount	200.000		Recovery	=	81.75%	89.04%
2) S DCB	12.09	11.93	756.3E6	987.7E6	219.235	211.512m
Spiked Amount	200.000		Recovery	=	109.62%	105.76%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.66	3484.3E6	5496.3E6	6329.294	7170.851
24) L6 Aroclor-1248 {2}	4.98	5.22	2290.6E6	10115.3E6	7177.731	8872.376
25) L6 Aroclor-1248 {3}	5.30	5.61	7551.8E6	9268.3E6	18061.315	11375.271 #
26) L6 Aroclor-1248 {4}	6.00	5.76	5970.3E6	6160.7E6	9171.964	8959.281
27) L6 Aroclor-1248 {5}	6.23	6.10	28356.1E6	3897.5E6	58992.050	9589.669 #
Sum Aroclor-1248			47652.9E6	34938.0E6	99732.353	45967.448
Average Aroclor-1248					19946.471	9193.490
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : R4199.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 20:10  
 Operator : JS  
 Sample : H-38S\_(0-2,08996-001,S,5.50g,49.5,09/16/13,4  
 Misc : 130916-07,09/12/13,09/12/13,1  
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 11:15:03 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\09-17-13\  
 Data File : R4216.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 17 Sep 2013 9:54  
 Operator : JS  
 Sample : H-38S\_ (0-2,08996-001DL,S,5.50g,49.5,4  
 Misc : 130916-07,09/12/13,09/12/13,10  
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 10:58:47 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

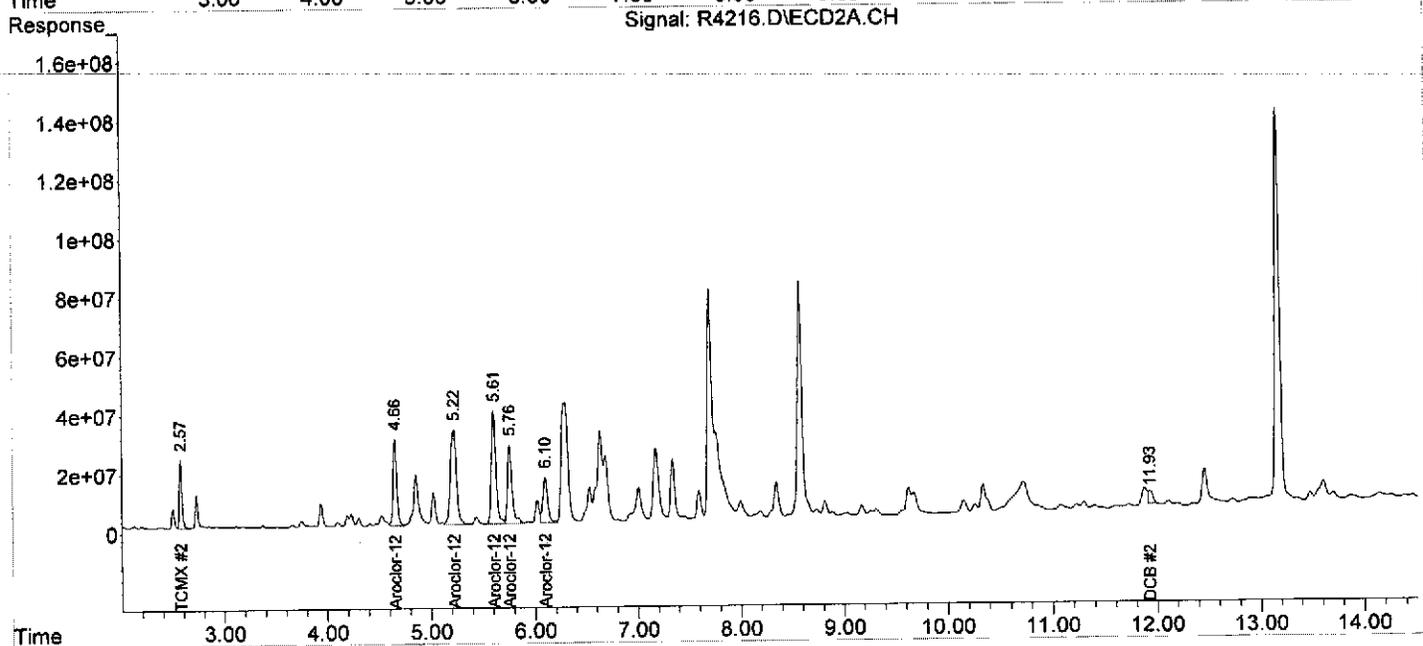
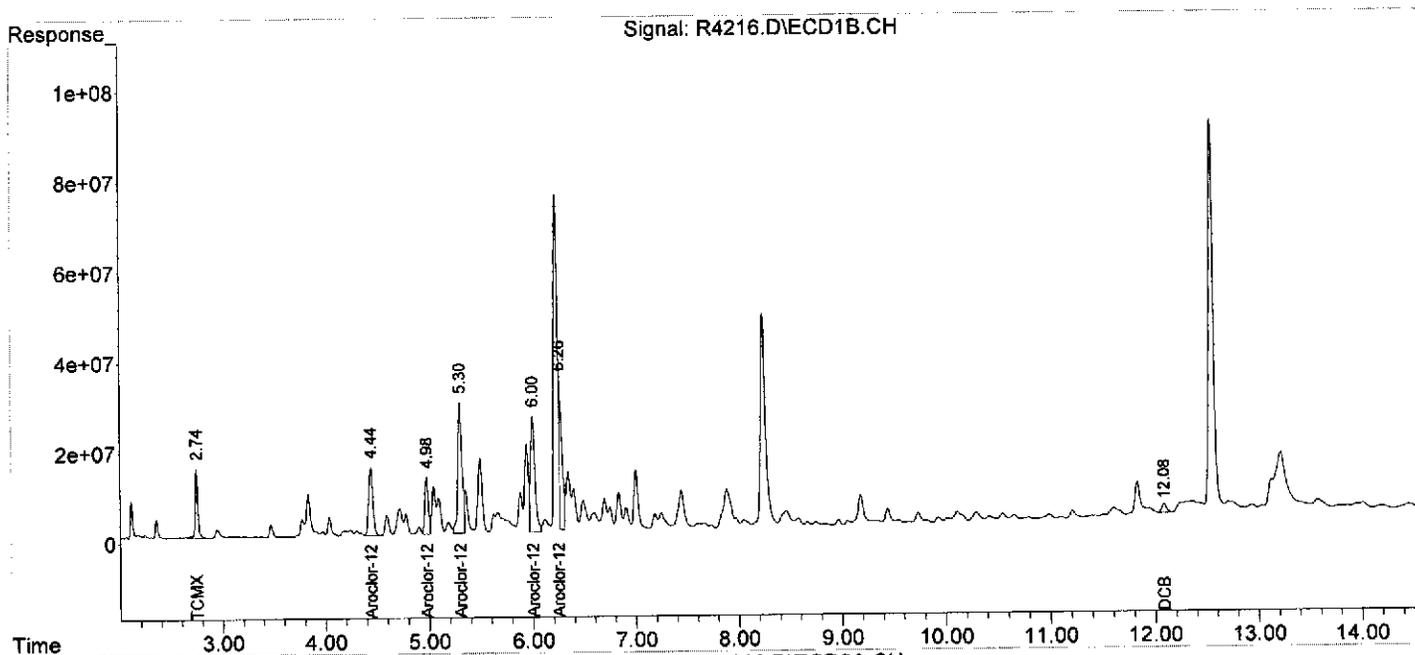
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.75	2.57	275.9E6	404.3E6	19.666	20.166
Spiked Amount	200.000		Recovery	=	9.83%	10.08%
2) S DCB	12.08	11.93	62396481	123.9E6	18.088m	26.539m#
Spiked Amount	200.000		Recovery	=	9.04%	13.27%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.66	442.7E6	712.7E6	804.099	929.776
24) L6 Aroclor-1248 {2}	4.98	5.22	295.7E6	1300.6E6	926.767	1140.806
25) L6 Aroclor-1248 {3}	5.30	5.61	803.2E6	1181.7E6	1921.002m	1450.342
26) L6 Aroclor-1248 {4}	6.00	5.76	755.9E6	811.2E6	1161.224	1179.741
27) L6 Aroclor-1248 {5}	6.26	6.10	612.7E6	503.2E6	1274.693m	1238.068
Sum Aroclor-1248			2910.2E6	4509.4E6	6087.786	5938.733
Average Aroclor-1248					1217.557	1187.747
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\09-17-13\  
 Data File : R4216.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 17 Sep 2013 9:54  
 Operator : JS  
 Sample : H-38S\_(0-2,08996-001DL,S,5.50g,49.5,4  
 Misc : 130916-07,09/12/13,09/12/13,10  
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 10:58:47 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\09-19-13\  
 Data File : R4271.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 19 Sep 2013 13:05  
 Operator : JS  
 Sample : H-38S (2.0,08996-002,S,5.64g,23.8,09/18/13,4  
 Misc : 130918-13,09/12/13,09/12/13,1  
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 19 13:27:48 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

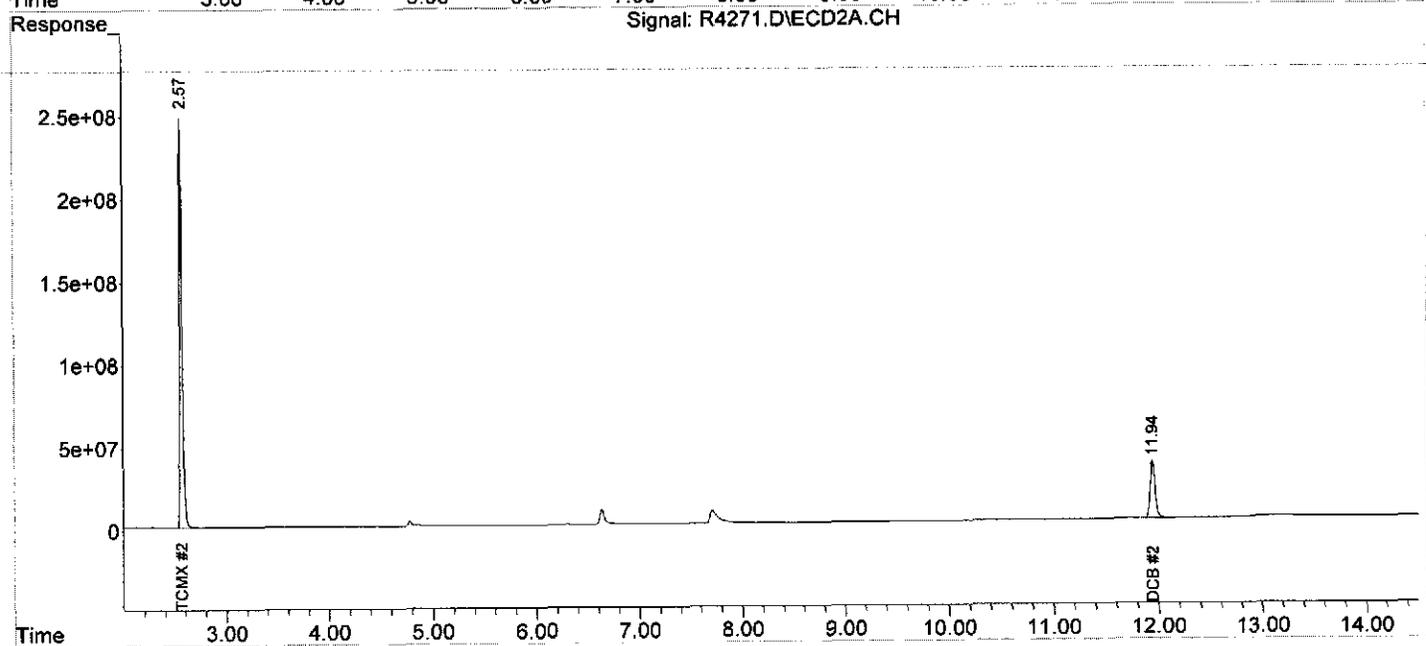
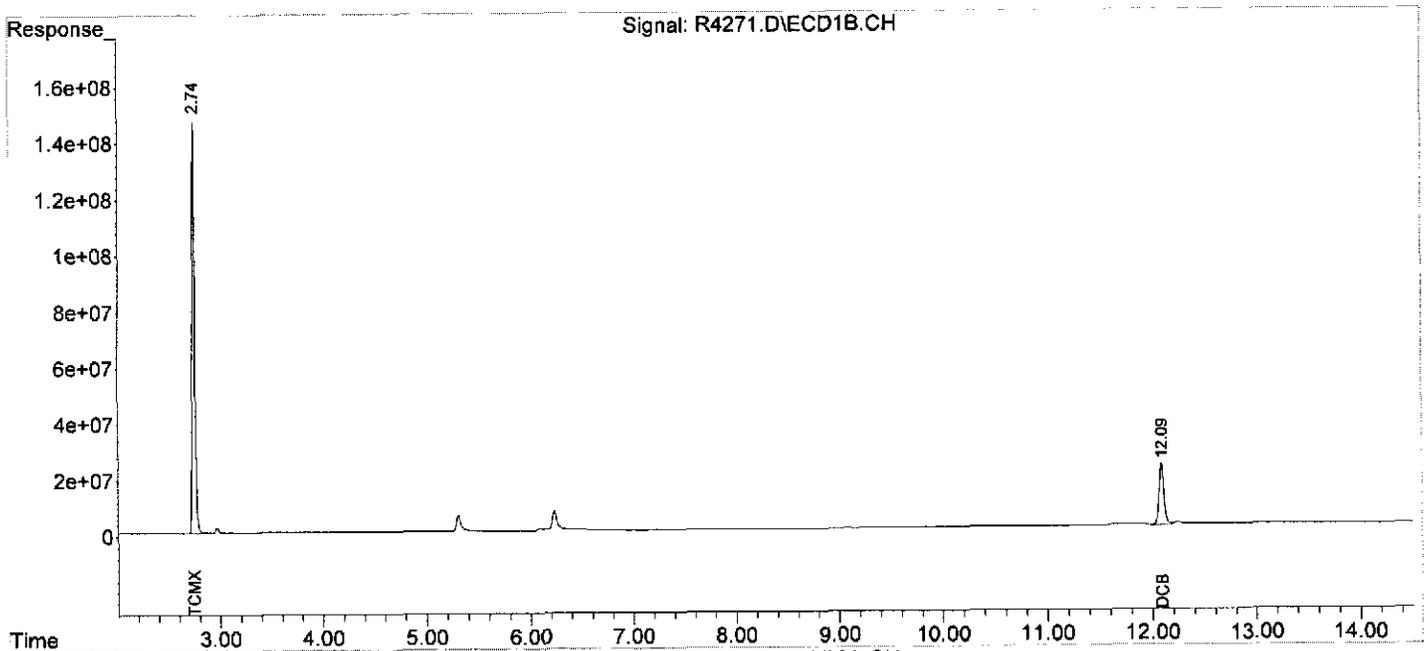
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----						
System Monitoring Compounds						
1) S TCMX	2.74	2.57	2568.9E6	4387.2E6	183.085	218.830
Spiked Amount	200.000		Recovery	=	91.54%	109.41%
2) S DCB	12.09	11.94	718.2E6	1143.3E6	208.209	244.830
Spiked Amount	200.000		Recovery	=	104.10%	122.42%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\09-19-13\  
 Data File : R4271.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 19 Sep 2013 13:05  
 Operator : JS  
 Sample : H-38S\_(2.0,08996-002,S,5.64g,23.8,09/18/13,4  
 Misc : 130918-13,09/12/13,09/12/13,1  
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 19 13:27:48 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\09-17-13\  
 Data File : R4214.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 17 Sep 2013 9:19  
 Operator : JS  
 Sample : H-37W (2.0,08996-003,S,5.43g,23.0,09/16/13,4  
 Misc : 130916-07,09/12/13,09/12/13,1  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 11:06:03 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

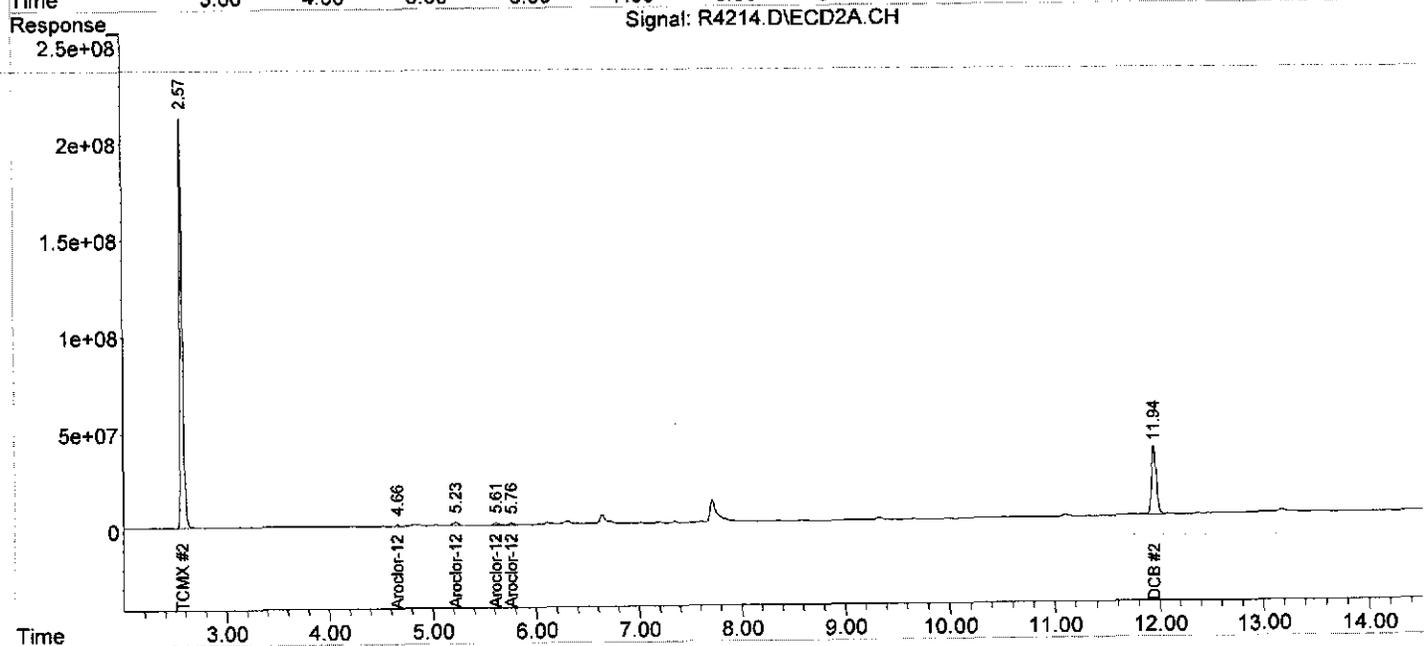
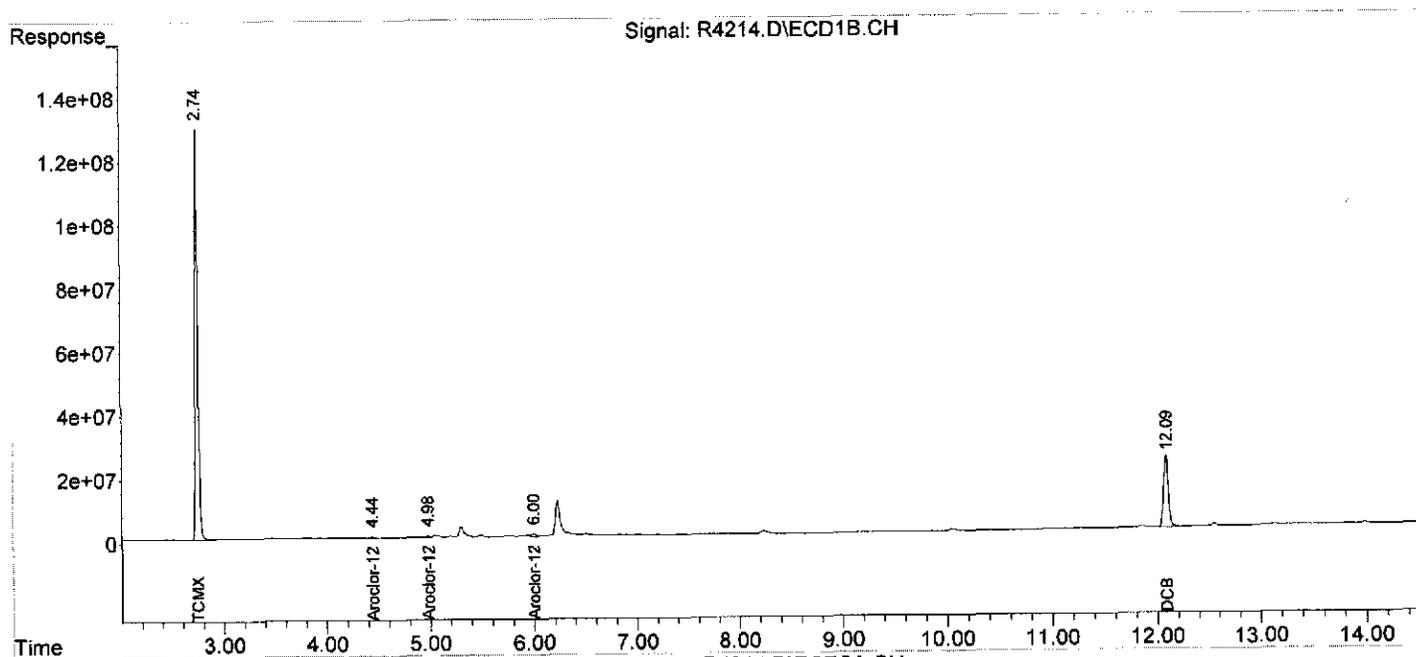
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----						
System Monitoring Compounds						
1) S TCMX	2.74	2.58	2430.7E6	4019.0E6	173.234	200.468
Spiked Amount	200.000		Recovery	=	86.62%	100.23%
2) S DCB	12.09	11.95	738.1E6	1150.0E6	213.953	246.258
Spiked Amount	200.000		Recovery	=	106.98%	123.13%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.66	14306373	24237397	25.988	31.622
24) L6 Aroclor-1248 {2}	4.98	5.23	12011948	58875512	37.641	51.641m#
25) L6 Aroclor-1248 {3}	0.00	5.61	0	40904183	N.D. d	50.203m#
26) L6 Aroclor-1248 {4}	6.00	5.76	29675438	28656572	45.590	41.674m
Sum Aroclor-1248			55993758	152.7E6	109.219	175.140
Average Aroclor-1248					36.406	43.785
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\09-17-13\  
 Data File : R4214.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 17 Sep 2013 9:19  
 Operator : JS  
 Sample : H-37W (2.0,08996-003,S,5.43g,23.0,09/16/13,4  
 Misc : 130916-07,09/12/13,09/12/13,1  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 11:06:03 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : R4201.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 20:44  
 Operator : JS  
 Sample : R-47R\_ (0-1,08996-004,S,5.36g,70.6,09/16/13,4  
 Misc : 130916-07,09/12/13,09/12/13,1  
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 11:08:03 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.75	2.57	2684.6E6	4407.1E6	191.327	219.824
Spiked Amount	200.000		Recovery	=	95.66%	109.91%
2) S DCB	12.09	11.94	820.6E6	1389.7E6	237.879	297.597m#
Spiked Amount	200.000		Recovery	=	118.94%	148.80%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.66	595.9E6	835.0E6	1082.430	1089.423
24) L6 Aroclor-1248 {2}	4.98	5.22	891.4E6	3753.1E6	2793.347	3291.989
25) L6 Aroclor-1248 {3}	5.30	5.61	1325.0E6	3054.3E6	3168.881	3748.601
26) L6 Aroclor-1248 {4}	6.00	5.76	2393.7E6	1511.3E6	3677.447	2197.797 #
27) L6 Aroclor-1248 {5}	6.27	6.10	1589.2E6	727.1E6	3306.132	1789.066 #
Sum Aroclor-1248			6795.2E6	9880.8E6	14028.236	12116.877
Average Aroclor-1248					2805.647	2423.375
28) L7 Aroclor-1254	6.40	6.59	804.1E6	974.2E6	1281.636	1063.690
29) L7 Aroclor-1254 {2}	6.83	7.16	1099.8E6	2068.6E6	2752.073	2868.139
30) L7 Aroclor-1254 {3}	7.00	7.59	1540.5E6	1064.7E6	2046.641	2245.221
31) L7 Aroclor-1254 {4}	7.44	7.77	1320.4E6	1993.3E6	1674.824	2834.568 #
32) L7 Aroclor-1254 {5}	8.24	8.58	1910.8E6	1871.3E6	2709.078	1845.492 #
Sum Aroclor-1254			6675.6E6	7972.1E6	10464.252	10857.109
Average Aroclor-1254					2092.850	2171.422
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : R4201.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 20:44  
 Operator : JS  
 Sample : R-47R\_(0-1,08996-004,S,5.36g,70.6,09/16/13,4  
 Misc : 130916-07,09/12/13,09/12/13,1  
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 11:08:03 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

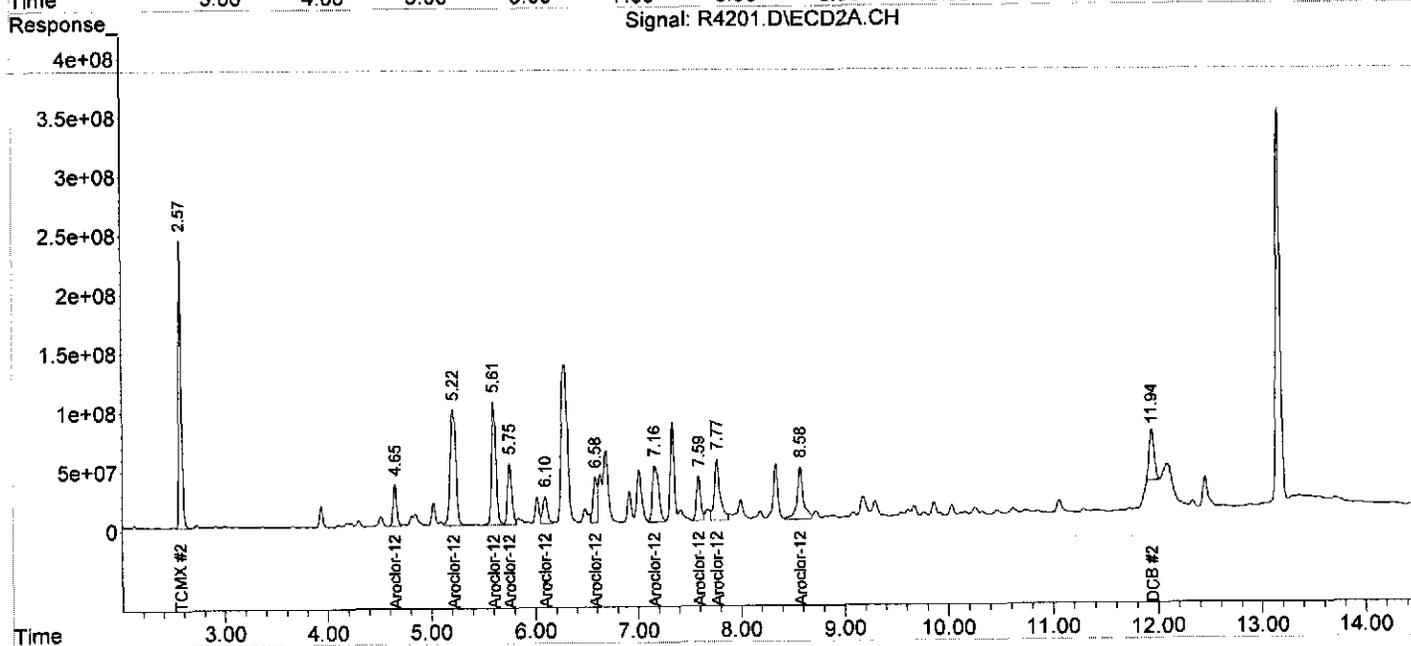
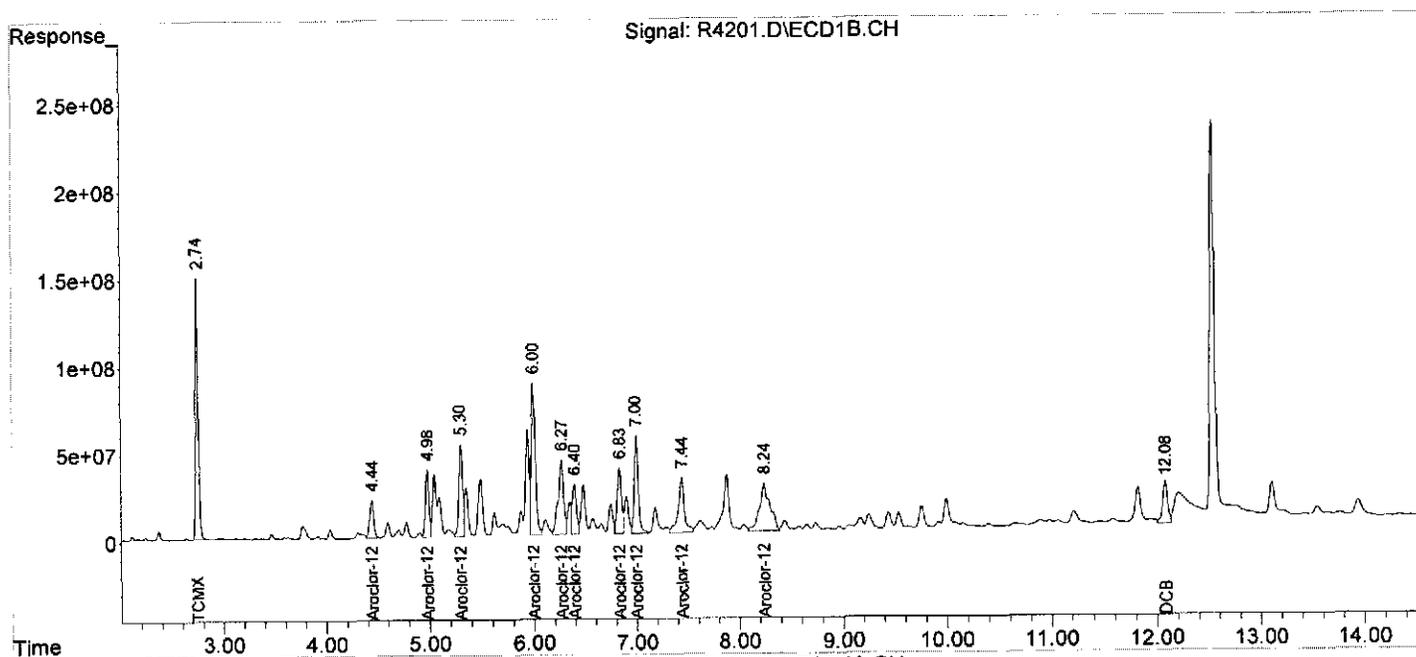
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
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(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : R4201.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 20:44  
 Operator : JS  
 Sample : R-47R\_(0-1,08996-004,S,5.36g,70.6,09/16/13,4  
 Misc : 130916-07,09/12/13,09/12/13,1  
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 11:08:03 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\09-17-13\  
 Data File : R4215.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 17 Sep 2013 9:36  
 Operator : JS  
 Sample : R-47R\_ (0-1,08996-004DL,S,5.36g,70.6,4  
 Misc : 130916-07,09/12/13,09/12/13,2  
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 11:15:39 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----						
System Monitoring Compounds						
1) S TCMX	2.75	2.57	1474.2E6	2421.7E6	105.062	120.792
Spiked Amount	200.000		Recovery	=	52.53%	60.40%
2) S DCB	12.08	11.94	448.3E6	583.1E6	129.961	124.873m
Spiked Amount	200.000		Recovery	=	64.98%	62.44%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.66	344.4E6	501.9E6	625.631	654.766
24) L6 Aroclor-1248 {2}	4.98	5.22	504.7E6	2151.3E6	1581.526	1886.950
25) L6 Aroclor-1248 {3}	5.30	5.61	733.6E6	1744.0E6	1754.458	2140.466
26) L6 Aroclor-1248 {4}	6.00	5.76	1368.7E6	871.8E6	2102.765	1267.895 #
27) L6 Aroclor-1248 {5}	6.27	6.10	876.0E6	425.2E6	1822.342	1046.123 #
Sum Aroclor-1248			3827.4E6	5694.2E6	7886.721	6996.201
Average Aroclor-1248					1577.344	1399.240
28) L7 Aroclor-1254	6.40	6.59	472.4E6	581.0E6	752.937	634.431
29) L7 Aroclor-1254 {2}	6.83	7.17	614.9E6	1181.8E6	1538.729	1638.530
30) L7 Aroclor-1254 {3}	7.00	7.59	889.3E6	622.3E6	1181.464	1312.254
31) L7 Aroclor-1254 {4}	7.44	7.77	776.2E6	1062.4E6	984.555	1510.785 #
32) L7 Aroclor-1254 {5}	8.24	8.58	1086.5E6	1084.1E6	1540.417	1069.214 #
Sum Aroclor-1254			3839.3E6	4531.6E6	5998.102	6165.214
Average Aroclor-1254					1199.620	1233.043
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

Data Path : C:\MSDCHEM\1\DATA\09-17-13\  
 Data File : R4215.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 17 Sep 2013 9:36  
 Operator : JS  
 Sample : R-47R (0-1,08996-004DL,S,5.36g,70.6,4  
 Misc : 130916-07,09/12/13,09/12/13,2  
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 11:15:39 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

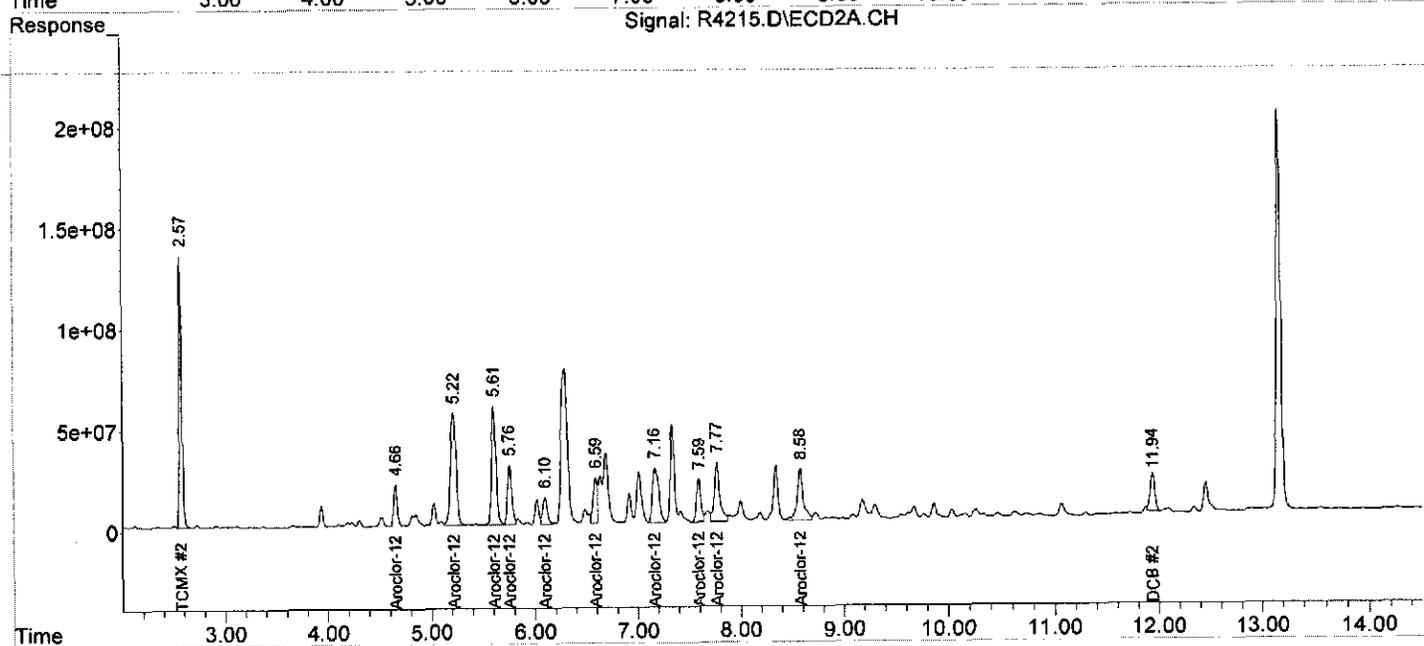
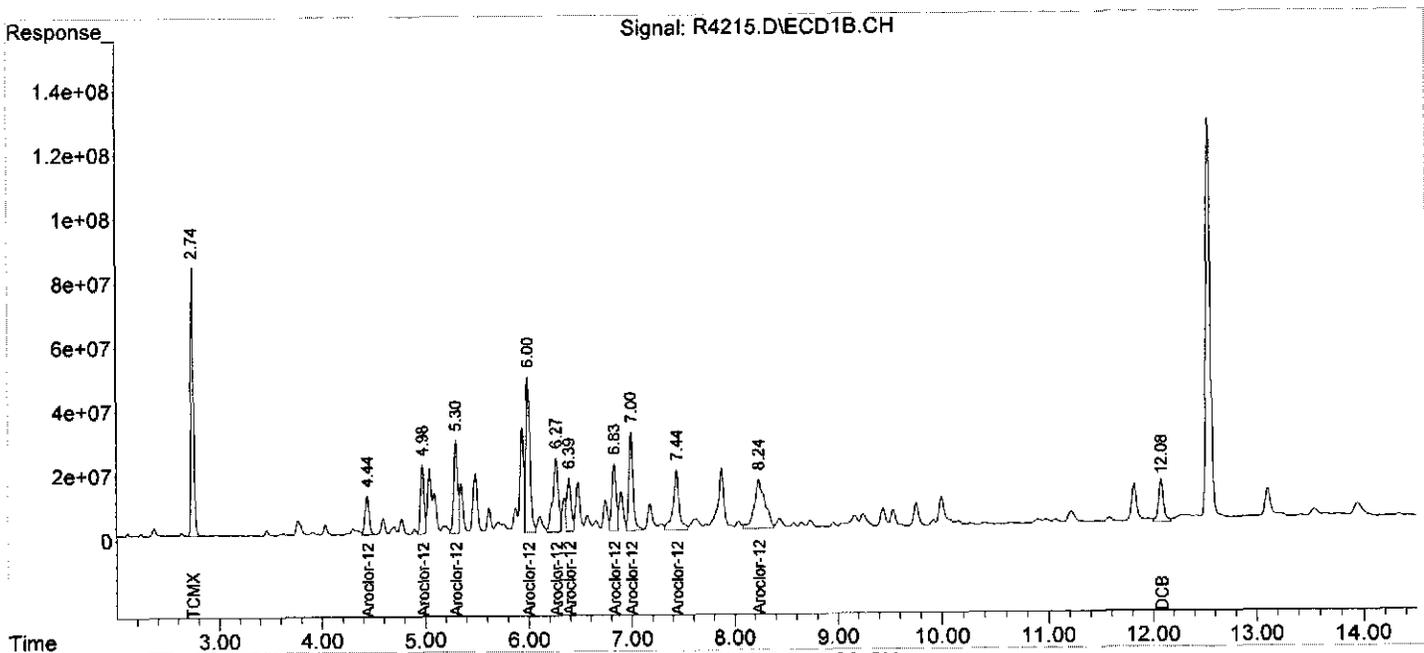
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----						
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\09-17-13\  
 Data File : R4215.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 17 Sep 2013 9:36  
 Operator : JS  
 Sample : R-47R\_(0-1,08996-004DL,S,5.36g,70.6,4  
 Misc : 130916-07,09/12/13,09/12/13,2  
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 11:15:39 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : R4202.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 21:02  
 Operator : JS  
 Sample : R-47R (1.0,08996-005,S,5.19g,80.3,09/16/13,4  
 Misc : 130916-07,09/12/13,09/12/13,1  
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 10:26:29 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

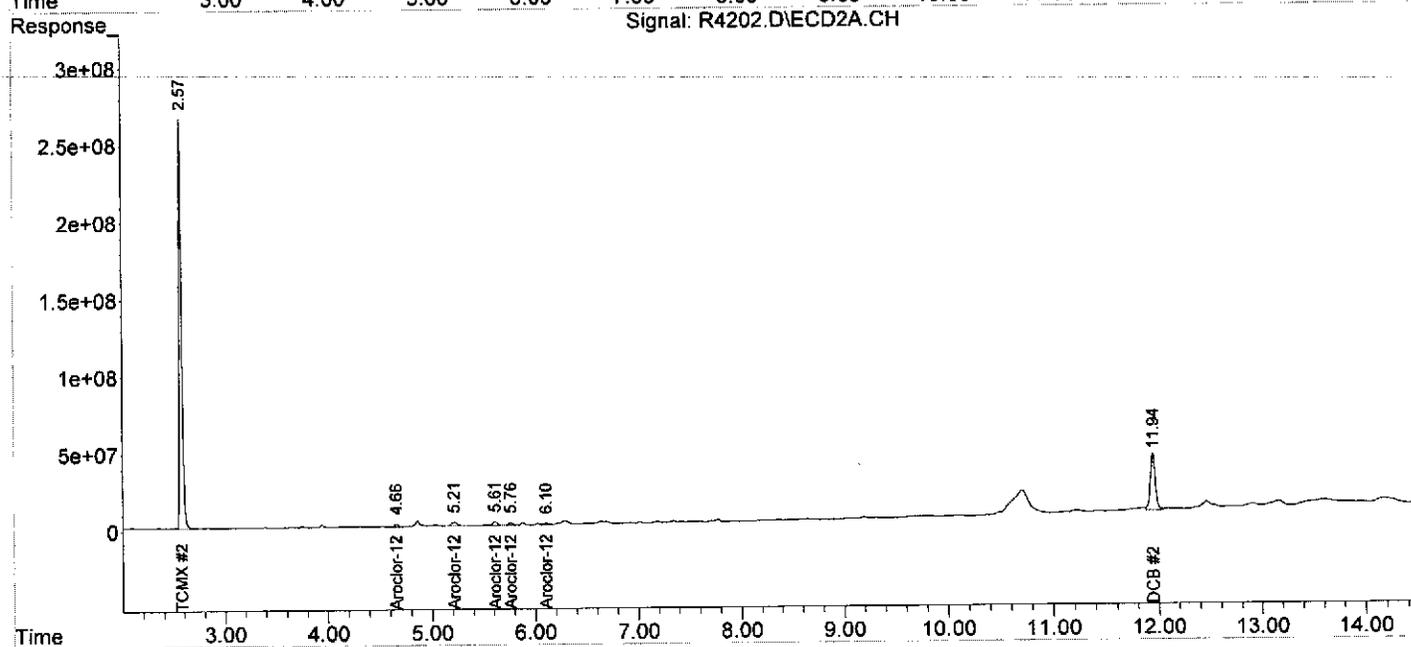
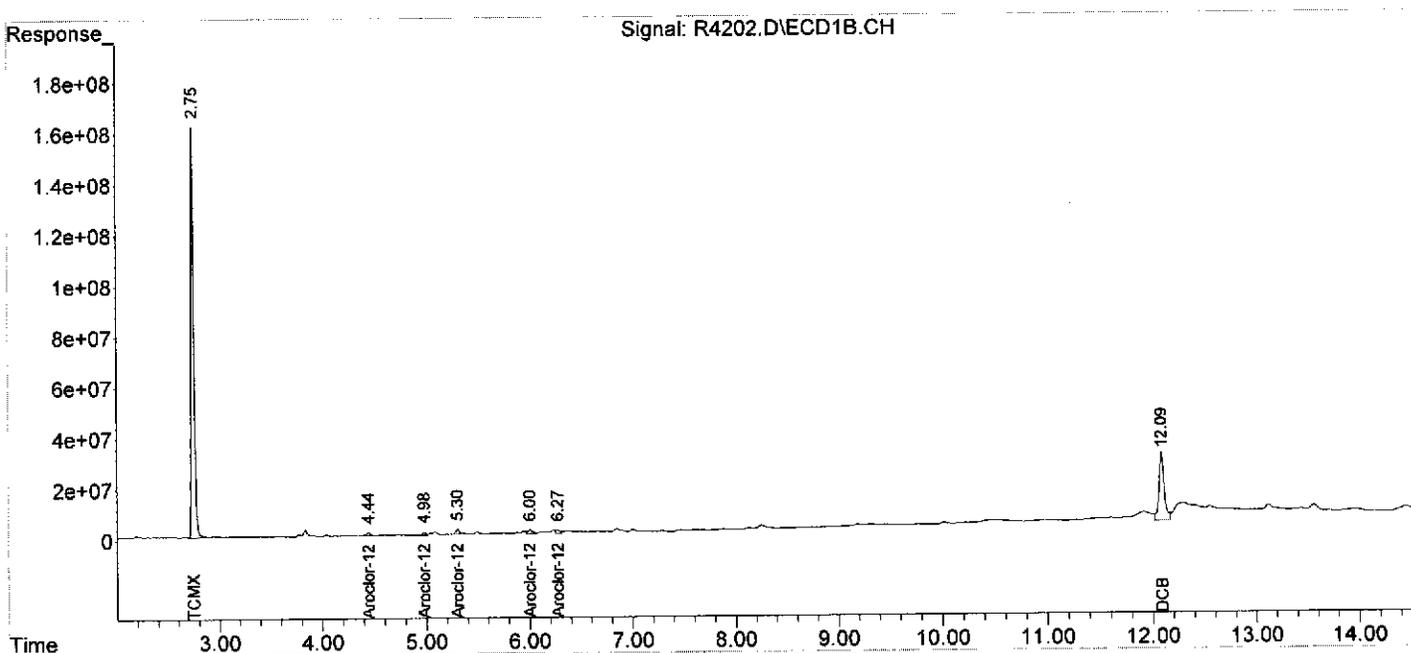
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----						
System Monitoring Compounds						
1) S TCMX	2.75	2.57	2931.5E6	4859.7E6	208.924	242.401
Spiked Amount	200.000		Recovery	=	104.46%	121.20%
2) S DCB	12.09	11.94	915.7E6	1220.8E6	265.444	261.427m
Spiked Amount	200.000		Recovery	=	132.72%	130.71%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.66	38173458	45413353	69.344	59.249
24) L6 Aroclor-1248 {2}	4.98	5.22	24474627	96768499	76.694	84.878
25) L6 Aroclor-1248 {3}	5.30	5.61	47119968	78512204	112.694m	96.360
26) L6 Aroclor-1248 {4}	6.00	5.76	48936264	50767520	75.180	73.829
27) L6 Aroclor-1248 {5}	6.27	6.10	38081730	32001835	79.225	78.740
Sum Aroclor-1248			196.8E6	303.5E6	413.137	393.058
Average Aroclor-1248					82.627	78.612
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : R4202.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 21:02  
 Operator : JS  
 Sample : R-47R\_(1.0,08996-005,S,5.19g,80.3,09/16/13,4  
 Misc : 130916-07,09/12/13,09/12/13,1  
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 10:26:29 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : R4203.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 21:19  
 Operator : JS  
 Sample : S-47\_(0-1.,08996-006,S,5.30g,76.8,09/16/13,4  
 Misc : 130916-07,09/12/13,09/12/13,1  
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 10:35:33 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.75	2.57	2829.4E6	4665.5E6	201.647	232.714
Spiked Amount	200.000		Recovery	=	100.82%	116.36%
2) S DCB	12.09	11.94	779.0E6	1211.0E6	225.818	259.333m
Spiked Amount	200.000		Recovery	=	112.91%	129.67%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.66	163.4E6	236.1E6	296.816	307.980
24) L6 Aroclor-1248 {2}	4.98	5.22	255.8E6	998.4E6	801.712	875.697
25) L6 Aroclor-1248 {3}	5.30	5.61	390.9E6	843.5E6	934.991	1035.265
26) L6 Aroclor-1248 {4}	6.00	5.76	624.9E6	401.8E6	960.056	584.341 #
27) L6 Aroclor-1248 {5}	6.27	6.10	321.3E6	217.7E6	668.365	535.575
Sum Aroclor-1248			1756.4E6	2697.4E6	3661.940	3338.858
Average Aroclor-1248					732.388	667.772
28) L7 Aroclor-1254	6.40	6.59	227.1E6	337.2E6	361.981	368.214
29) L7 Aroclor-1254 {2}	6.84	7.17	332.8E6	632.0E6	832.738	876.196
30) L7 Aroclor-1254 {3}	7.00	7.59	458.4E6	310.9E6	609.009	655.535
31) L7 Aroclor-1254 {4}	7.44	7.77	330.2E6	680.6E6	418.819	967.850 #
32) L7 Aroclor-1254 {5}	8.25	8.58	701.9E6	561.9E6	995.181	554.157 #
Sum Aroclor-1254			2050.4E6	2522.5E6	3217.729	3421.952
Average Aroclor-1254					643.546	684.390
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : R4203.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 21:19  
 Operator : JS  
 Sample : S-47\_(0-1.,08996-006,S,5.30g,76.8,09/16/13,4  
 Misc : 130916-07,09/12/13,09/12/13,1  
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 10:35:33 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

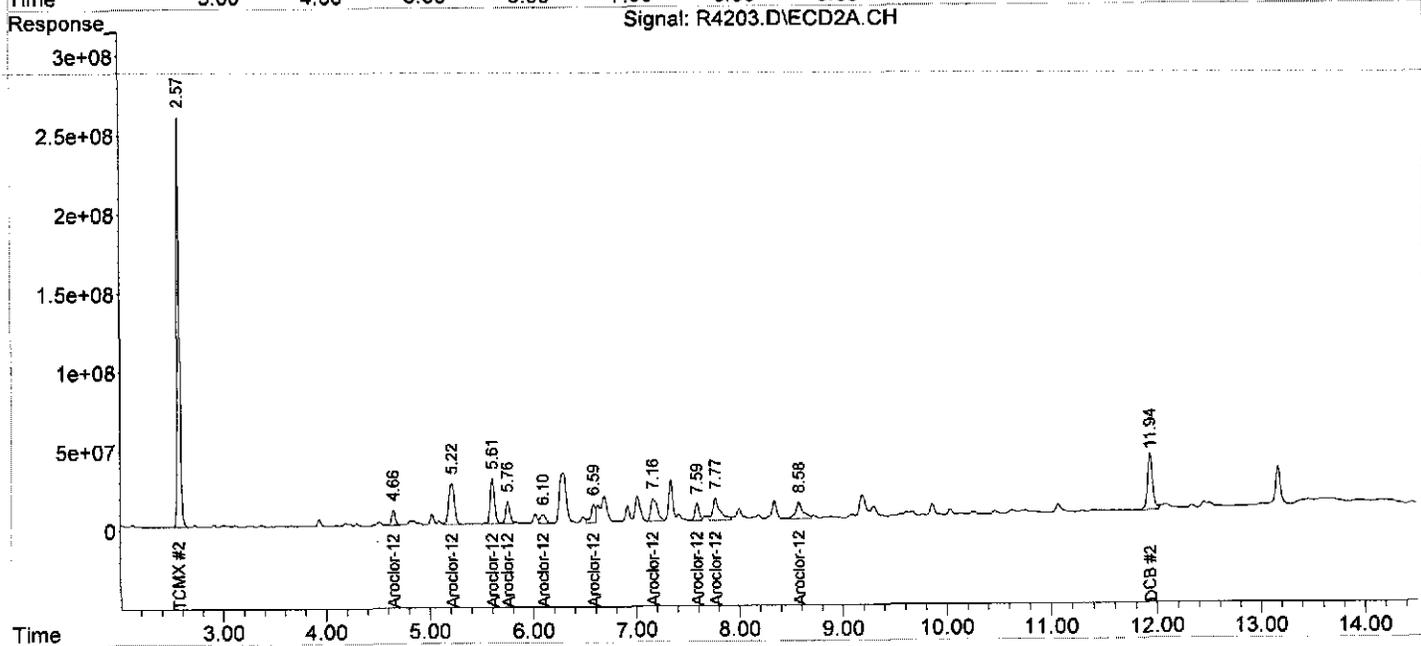
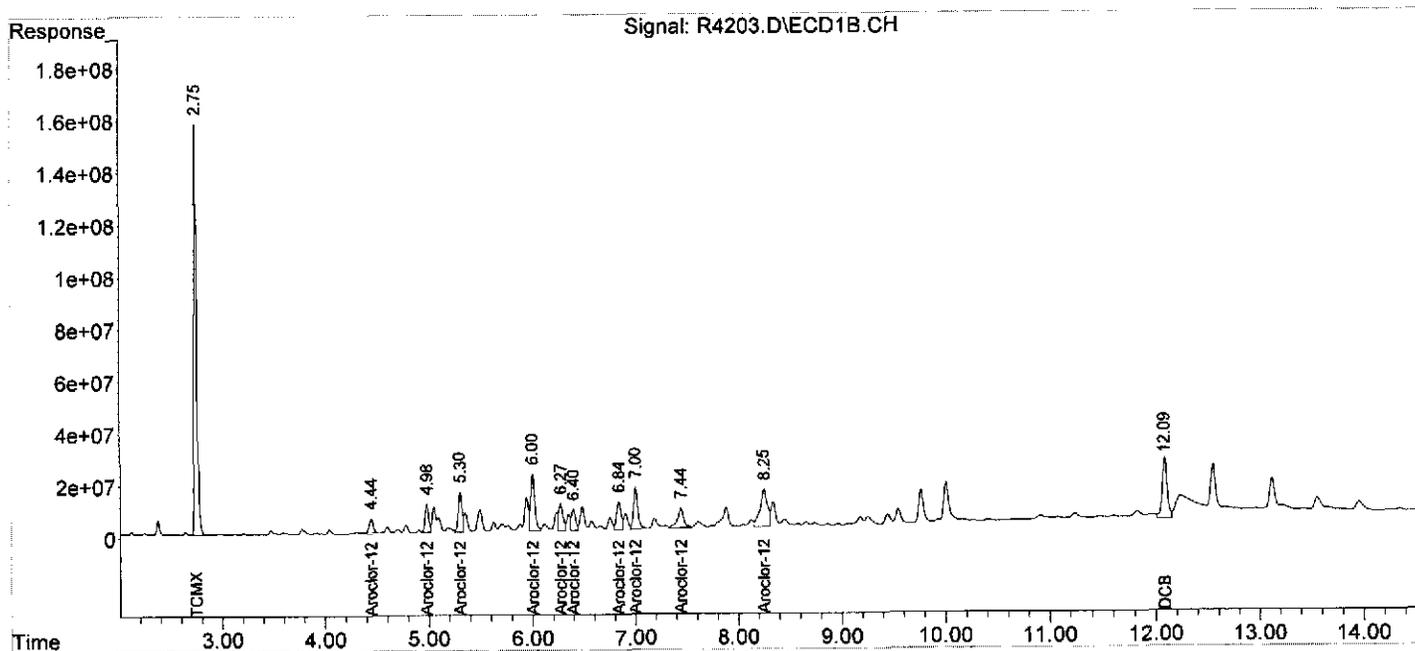
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----						
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : R4203.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 21:19  
 Operator : JS  
 Sample : S-47\_(0-1.,08996-006,S,5.30g,76.8,09/16/13,4  
 Misc : 130916-07,09/12/13,09/12/13,1  
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 10:35:33 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : R4204.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 21:37  
 Operator : JS  
 Sample : S-47\_(1.0-,08996-007,S,5.21g,79.5,09/16/13,4  
 Misc : 130916-07,09/12/13,09/12/13,1  
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 11:09:48 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

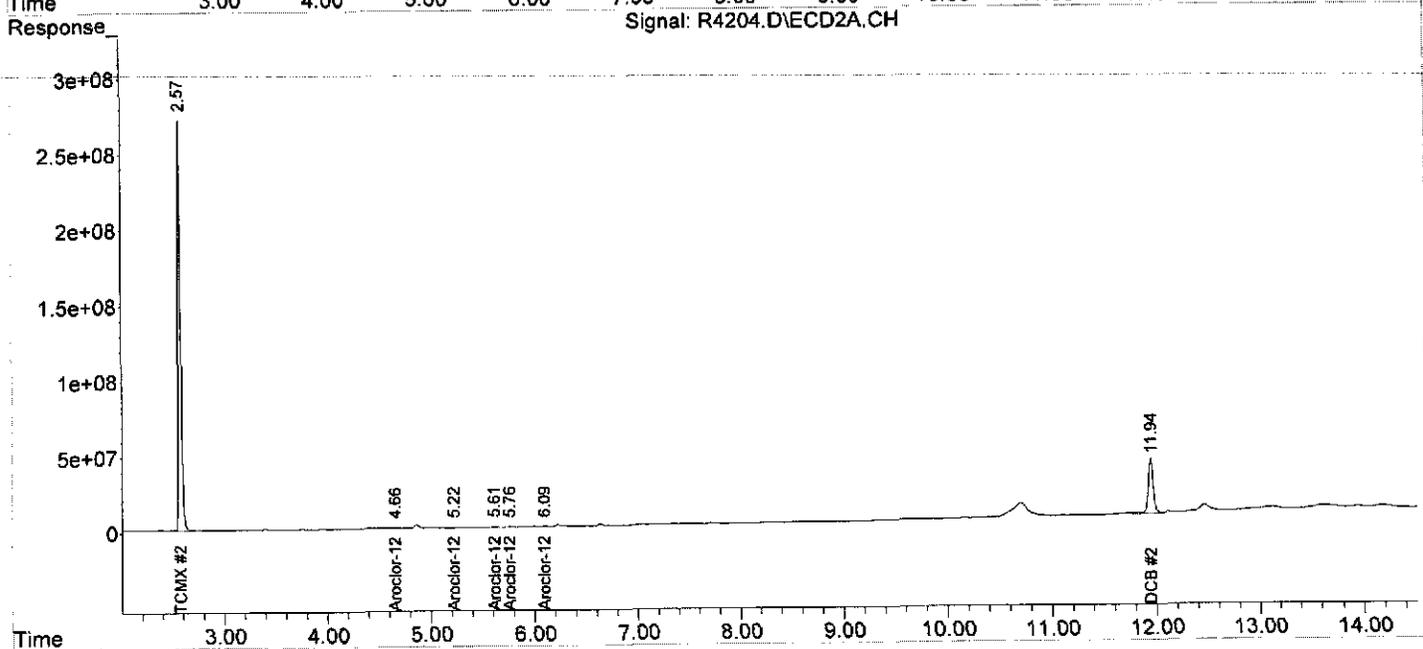
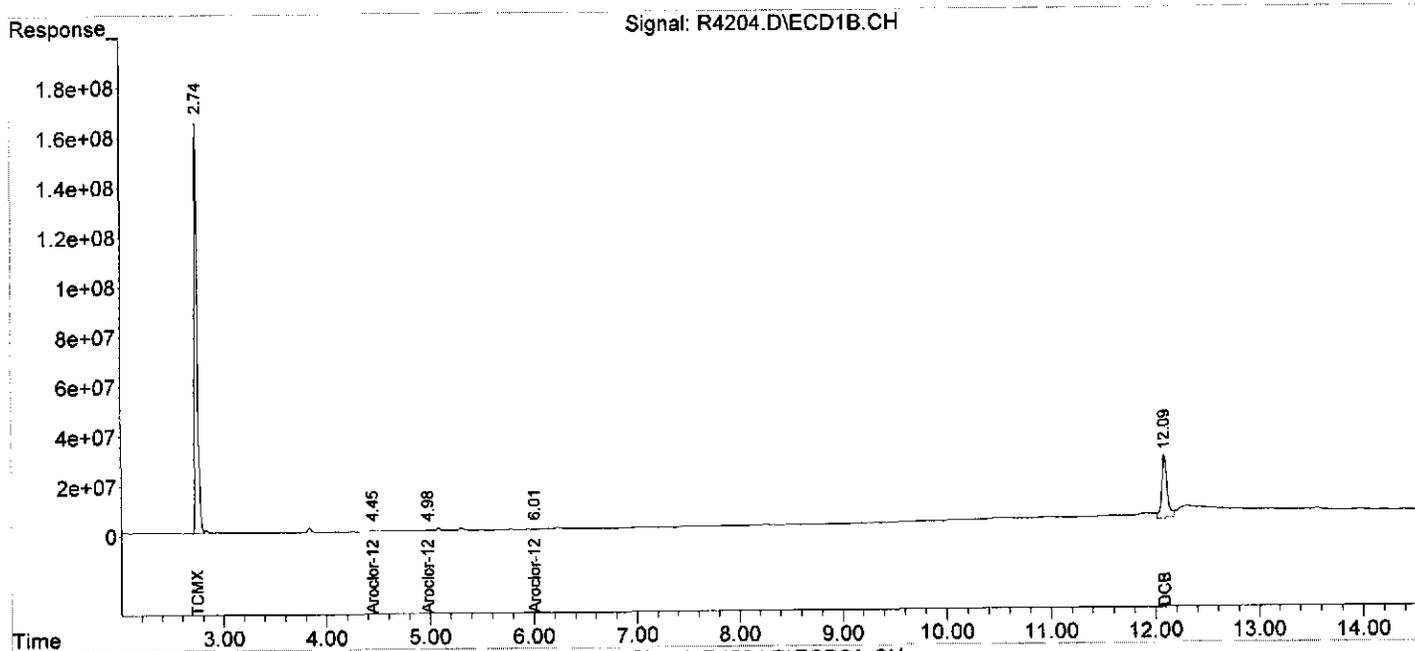
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.75	2.57	2958.2E6	4961.8E6	210.830	247.495
Spiked Amount	200.000		Recovery	=	105.42%	123.75%
2) S DCB	12.09	11.94	916.4E6	1268.1E6	265.654	271.557
Spiked Amount	200.000		Recovery	=	132.83%	135.78%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.45	4.66	9806763	7363945	17.814	9.607 #
24) L6 Aroclor-1248	4.98	5.22	4558396	16720179	14.284	14.666m
25) L6 Aroclor-1248	0.00	5.61	0	13446503	N.D. d	16.503m#
26) L6 Aroclor-1248	6.01	5.76	10139350	10180453	15.577	14.805m
27) L6 Aroclor-1248	0.00	6.09	0	6863335	N.D. d	16.887m#
Sum Aroclor-1248			24504509	54574415	47.676	72.469
Average Aroclor-1248					15.892	14.494
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : R4204.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 21:37  
 Operator : JS  
 Sample : S-47\_(1.0-,08996-007,S,5.21g,79.5,09/16/13,4  
 Misc : 130916-07,09/12/13,09/12/13,1  
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 11:09:48 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : R4205.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 21:54  
 Operator : JS  
 Sample : S-47\_(2.0-,08996-008,S,5.06g,72.5,09/16/13,4  
 Misc : 130916-07,09/12/13,09/12/13,1  
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 10:40:04 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

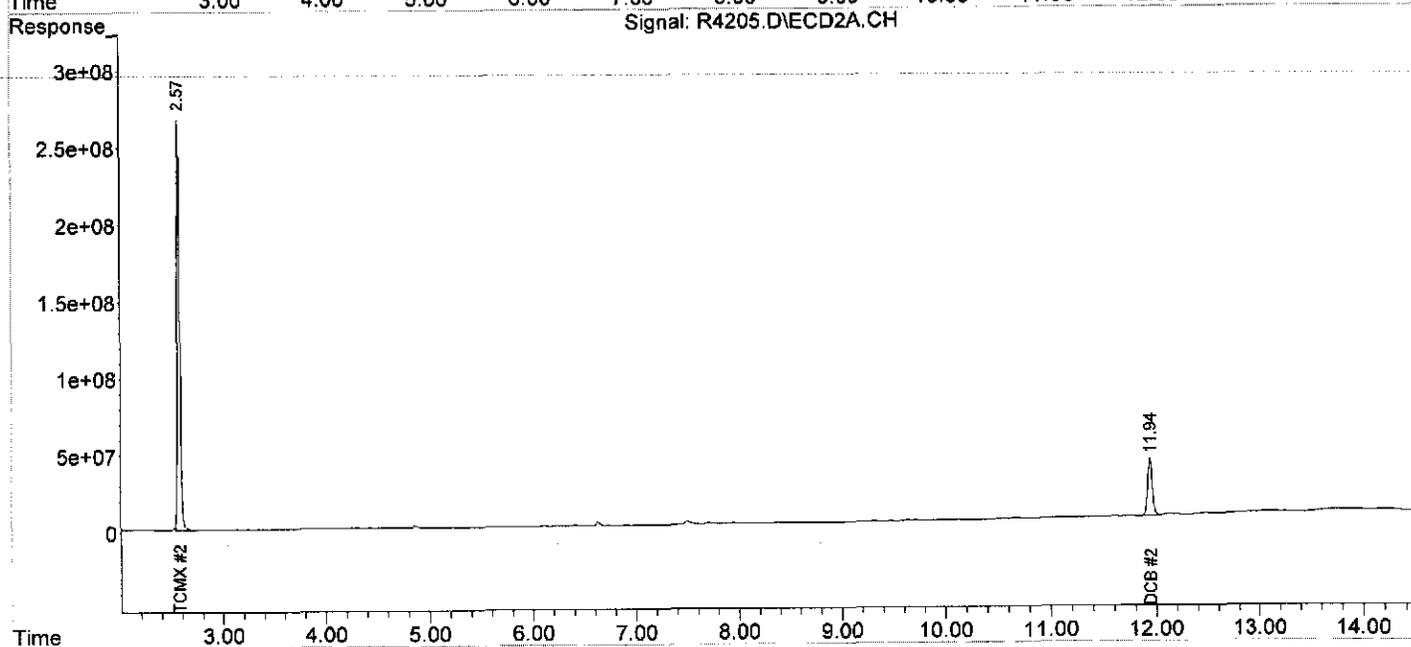
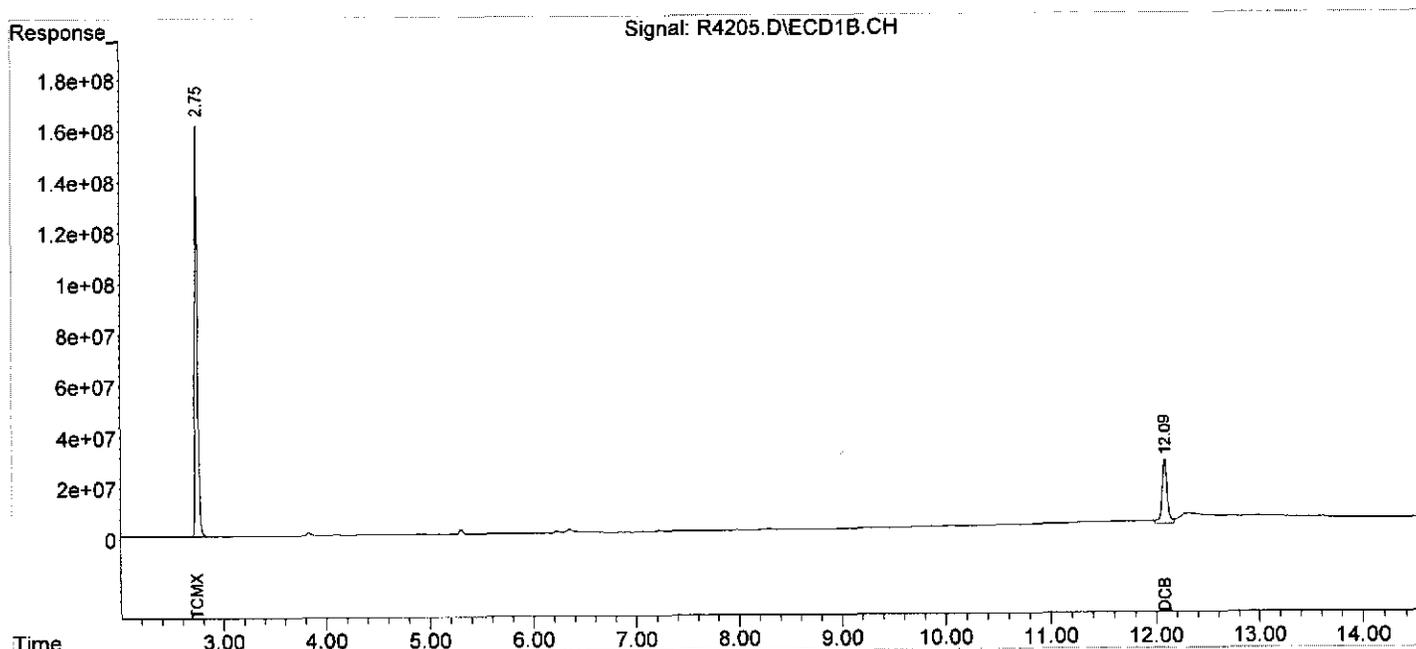
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----						
System Monitoring Compounds						
1) S TCMX	2.75	2.57	2887.3E6	4831.9E6	205.774	241.016
Spiked Amount	200.000		Recovery	=	102.89%	120.51%
2) S DCB	12.09	11.94	885.1E6	1191.9E6	256.576	255.235
Spiked Amount	200.000		Recovery	=	128.29%	127.62%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : R4205.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 21:54  
 Operator : JS  
 Sample : S-47\_(2.0-,08996-008,S,5.06g,72.5,09/16/13,4  
 Misc : 130916-07,09/12/13,09/12/13,1  
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 10:40:04 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : R4206.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 22:12  
 Operator : JS  
 Sample : S-47\_(3.0-,08996-009,S,5.36g,26.5,09/16/13,4  
 Misc : 130916-07,09/12/13,09/12/13,1  
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 10:40:53 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

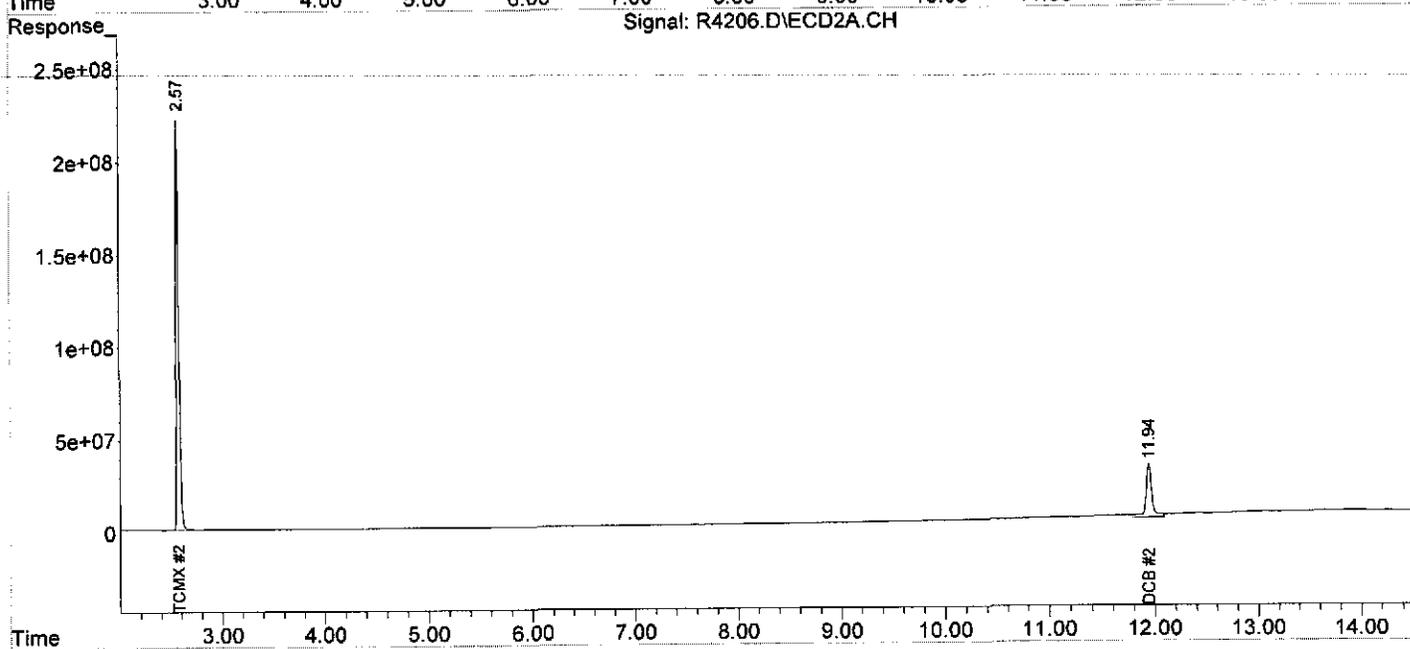
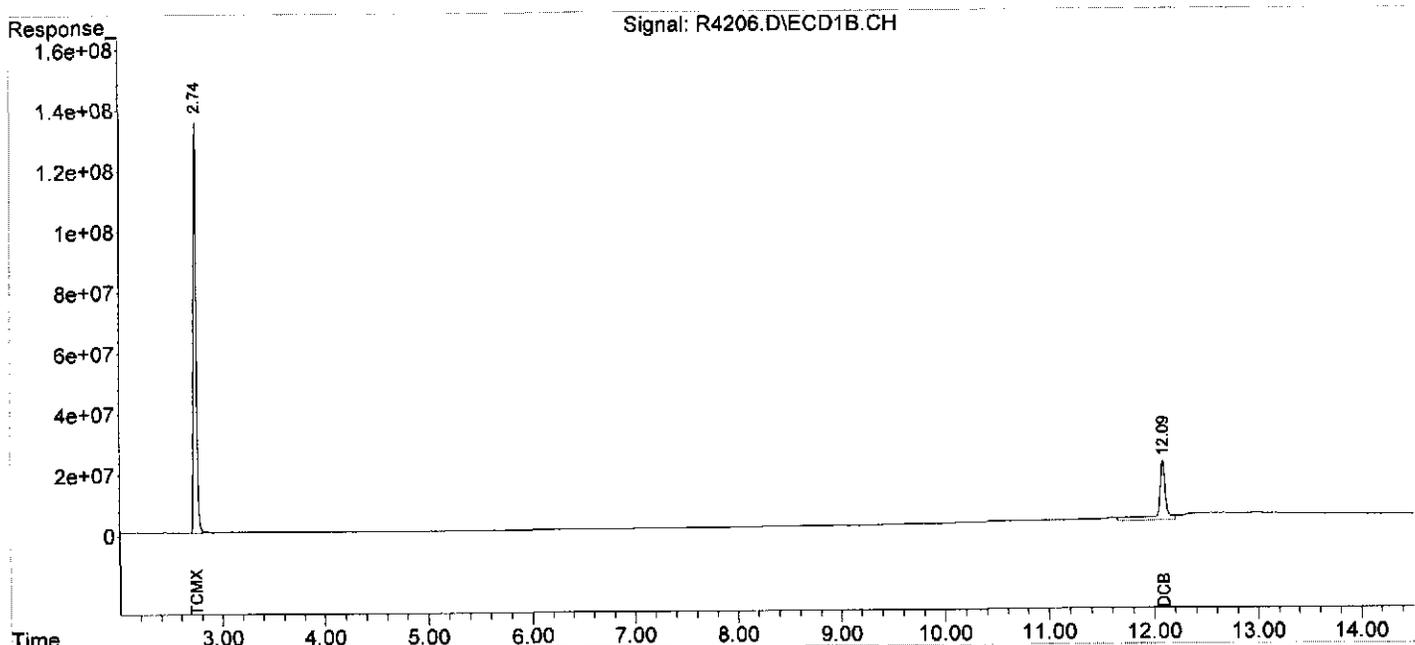
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----						
System Monitoring Compounds						
1) S TCMX	2.75	2.57	2473.8E6	4075.1E6	176.304	203.262
Spiked Amount	200.000			Recovery	= 88.15%	101.63%
2) S DCB	12.09	11.94	938.5E6	1134.2E6	272.065	242.877
Spiked Amount	200.000			Recovery	= 136.03%	121.44%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : R4206.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 22:12  
 Operator : JS  
 Sample : S-47\_(3.0-,08996-009,S,5.36g,26.5,09/16/13,4  
 Misc : 130916-07,09/12/13,09/12/13,1  
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 17 10:40:53 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : Y1670.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 11:07  
 Operator : NG  
 Sample : FB-8,08996-010,A,1000ml,100,09/13/13,1  
 Misc : 130913-07,09/12/13,09/12/13,1  
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 16 11:44:16 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0830.M  
 Quant Title :  
 QLast Update : Mon Sep 16 11:18:38 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

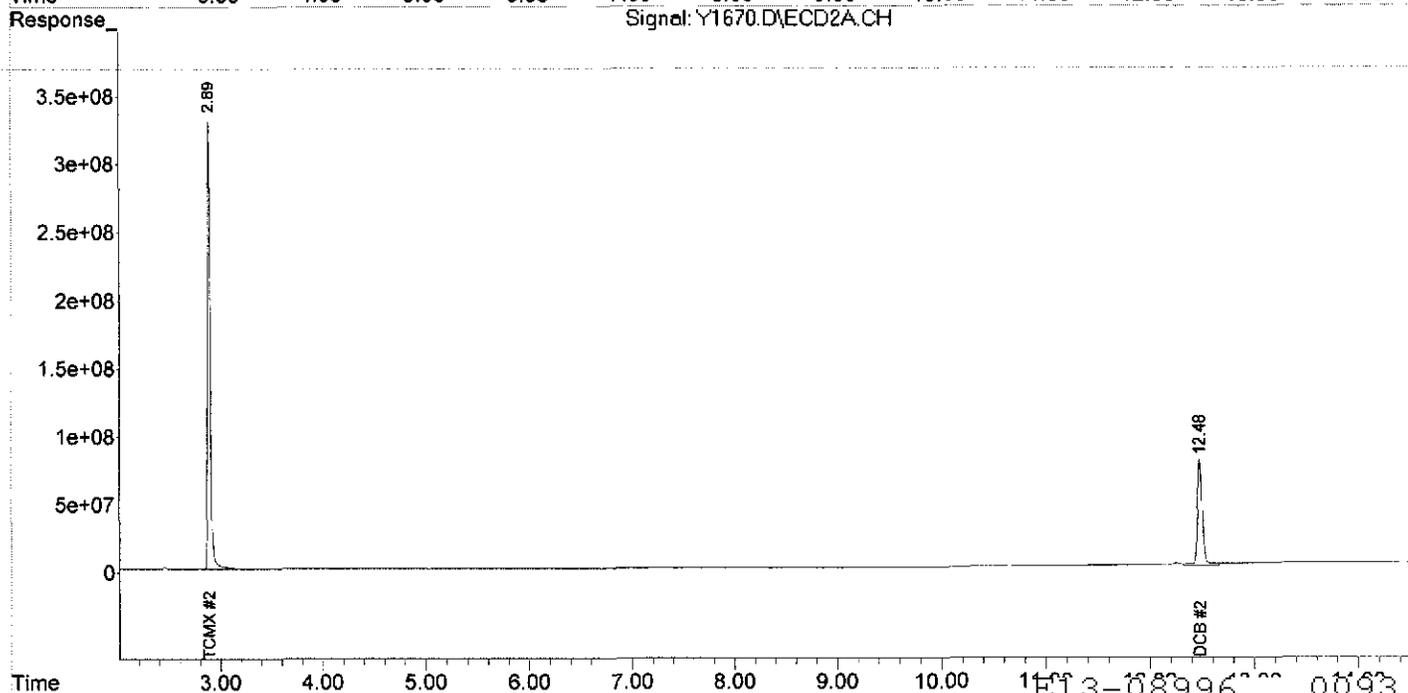
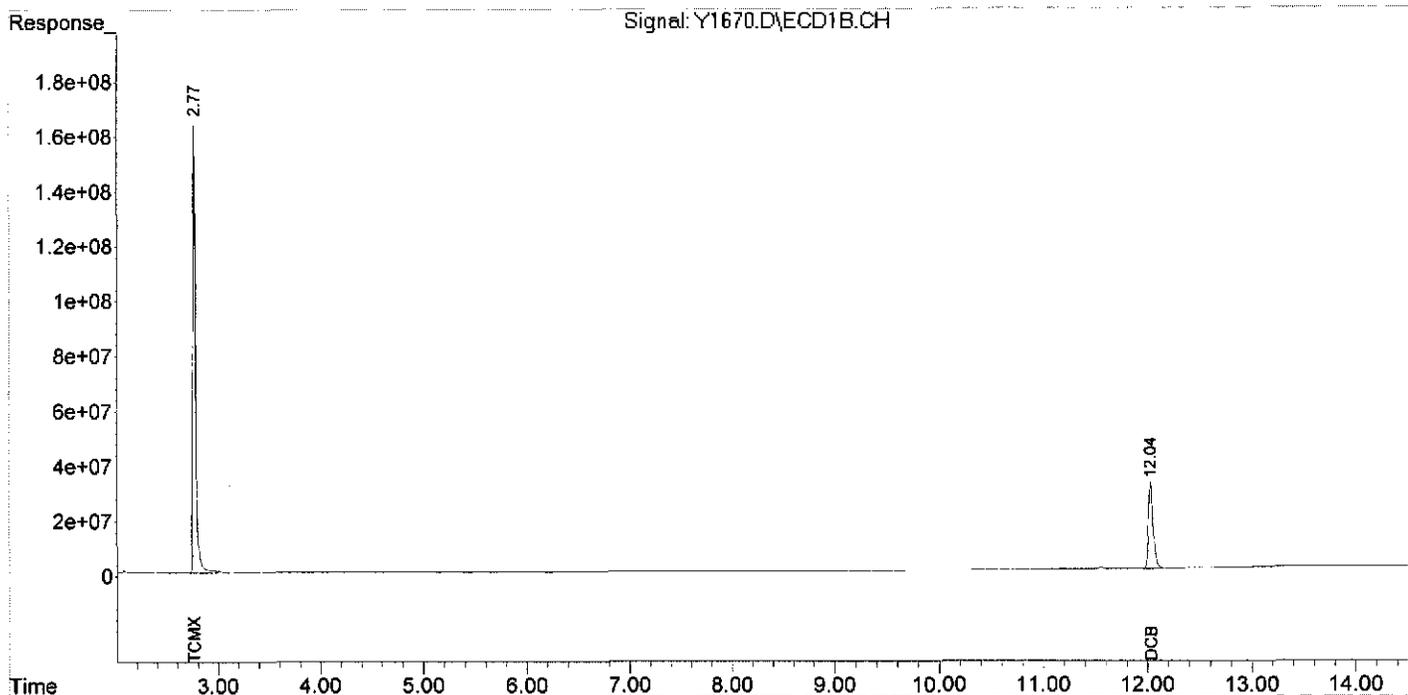
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.89	3042.8E6	6147.3E6	124.418	114.254
Spiked Amount	200.000			Recovery	= 62.21%	57.13%
2) S DCB	12.04	12.47	989.9E6	2586.7E6	131.858	141.644
Spiked Amount	200.000			Recovery	= 65.93%	70.82%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
Data File : Y1670.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 16 Sep 2013 11:07  
Operator : NG  
Sample : FB-8.08996-010.A.1000ml.100.09/13/13.1  
Misc : 130913-07.09/12/13.09/12/13.1  
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Sep 16 11:44:16 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0830.M  
Quant Title :  
QLast Update : Mon Sep 16 11:18:38 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: BLKA130906-10  
 Client ID: PCB  
 Date Received: NA  
 Date Extracted: 09/06/2013  
 Date Analyzed: 09/06/2013  
 Data file: Y1572.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 1000ml  
 Matrix-Units: Aqueous-µg/L (ppb)  
 Dilution Factor: 1  
 % Moisture: 100

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.050	0.020
Aroclor-1221	ND		0.050	0.020
Aroclor-1232	ND		0.050	0.020
Aroclor-1242	ND		0.050	0.020
Aroclor-1248	ND		0.050	0.020
Aroclor-1254	ND		0.050	0.020
Aroclor-1260	ND		0.050	0.020
Aroclor-1262	ND		0.050	0.020
Aroclor-1268	ND		0.050	0.020
PCBs	ND		0.050	0.020

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: BLKA130913-07  
Client ID: PCB  
Date Received: NA  
Date Extracted: 09/13/2013  
Date Analyzed: 09/16/2013  
Data file: Y1665.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 1000ml  
Matrix-Units: Aqueous-µg/L (ppb)  
Dilution Factor: 1  
% Moisture: 100

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.050	0.020
Aroclor-1221	ND		0.050	0.020
Aroclor-1232	ND		0.050	0.020
Aroclor-1242	ND		0.050	0.020
Aroclor-1248	ND		0.050	0.020
Aroclor-1254	ND		0.050	0.020
Aroclor-1260	ND		0.050	0.020
Aroclor-1262	ND		0.050	0.020
Aroclor-1268	ND		0.050	0.020
PCBs	ND		0.050	0.020

D --- Dilution Performed  
J --- Value Less than RL & great than MDL  
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
C --- Common laboratory contamination

Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : Y1665.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 9:40  
 Operator : NG  
 Sample : PCB, BLKA130913-07.A, 1000ml, 100, 09/13/13.1  
 Misc : NA, NA, NA, 1  
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 16 11:18:08 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0830.M  
 Quant Title :  
 Last Update : Fri Sep 06 09:42:56 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

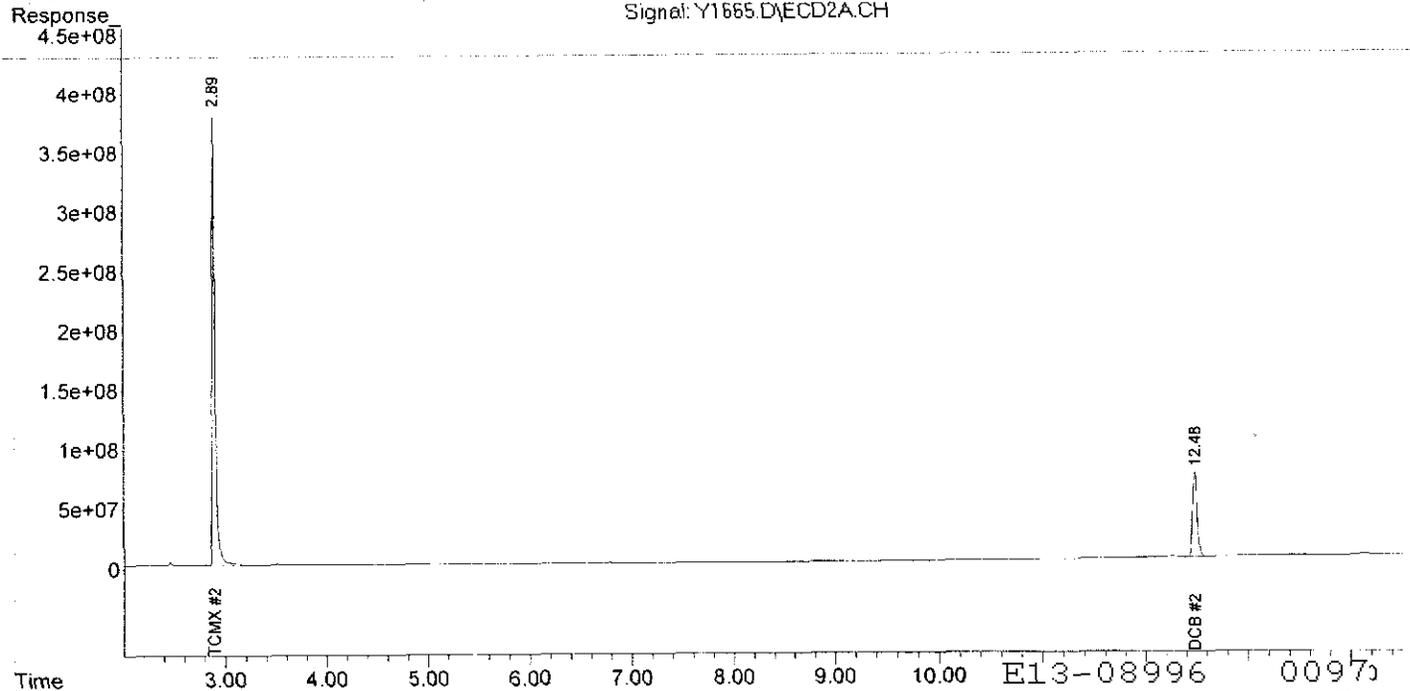
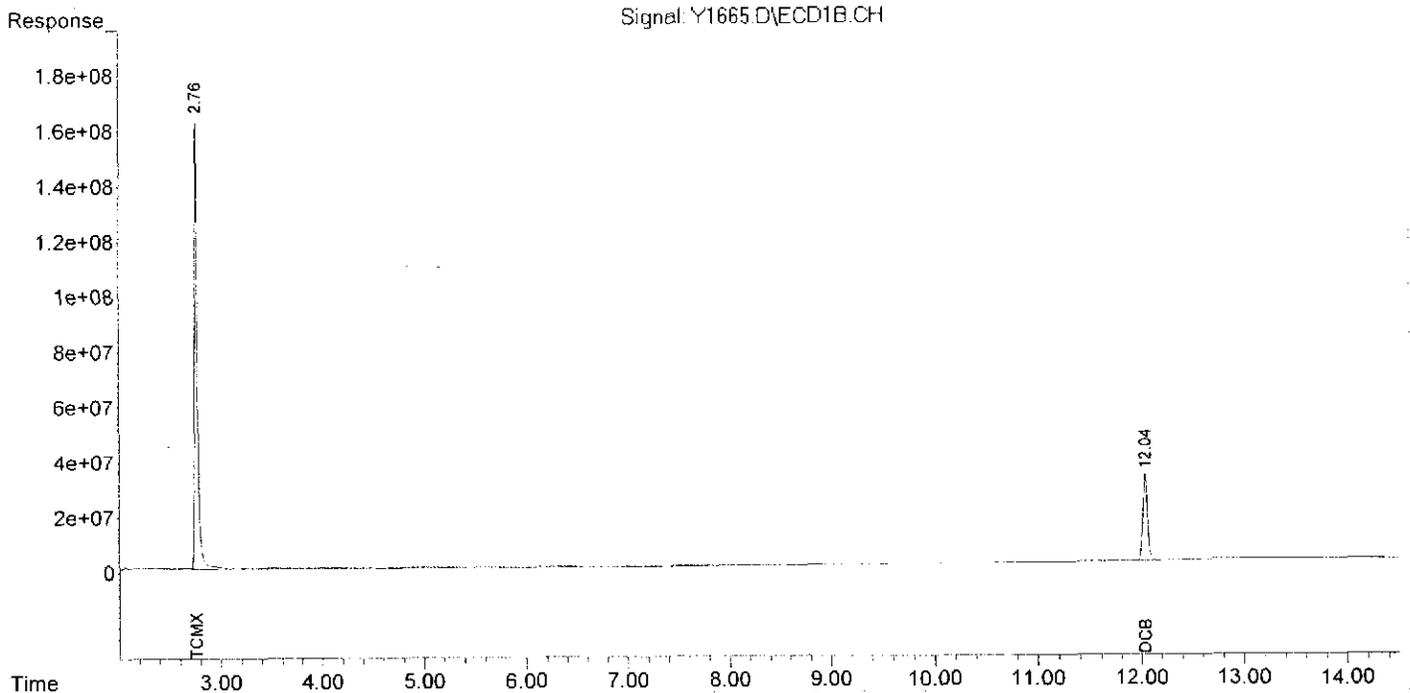
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.76	2.89	3173.0E6	7444.3E6	129.741	138.359
Spiked Amount	200.000		Recovery =		64.87%	69.18%
2) S DCB	12.04	12.48	984.6E6	2246.0E6	131.144	122.990
Spiked Amount	200.000		Recovery =		65.57%	61.49%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : Y1665.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 9:40  
 Operator : NG  
 Sample : PCB, BLKA130913-07, A, 1000ml, 100.09/13/13.1  
 Misc : NA, NA, NA, 1  
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 16 11:18:08 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0830.M  
 Quant Title :  
 QLast Update : Fri Sep 06 09:42:56 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: BLKS130916-07  
 Client ID: PCB  
 Date Received: NA  
 Date Extracted: 09/16/2013  
 Date Analyzed: 09/16/2013  
 Data file: R4187.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.00g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 1  
 % Moisture: NA

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.040	0.016
Aroclor-1221	ND		0.040	0.016
Aroclor-1232	ND		0.040	0.016
Aroclor-1242	ND		0.040	0.016
Aroclor-1248	ND		0.040	0.016
Aroclor-1254	ND		0.040	0.016
Aroclor-1260	ND		0.040	0.016
Aroclor-1262	ND		0.040	0.016
Aroclor-1268	ND		0.040	0.016
<b>PCBs</b>	ND		0.040	0.016

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : R4187.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 15:31  
 Operator : JS  
 Sample : PCB,BLKS130916-07,S,5.00g,0,09/16/13,4  
 Misc : NA,NA,NA,1  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 16 16:03:48 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

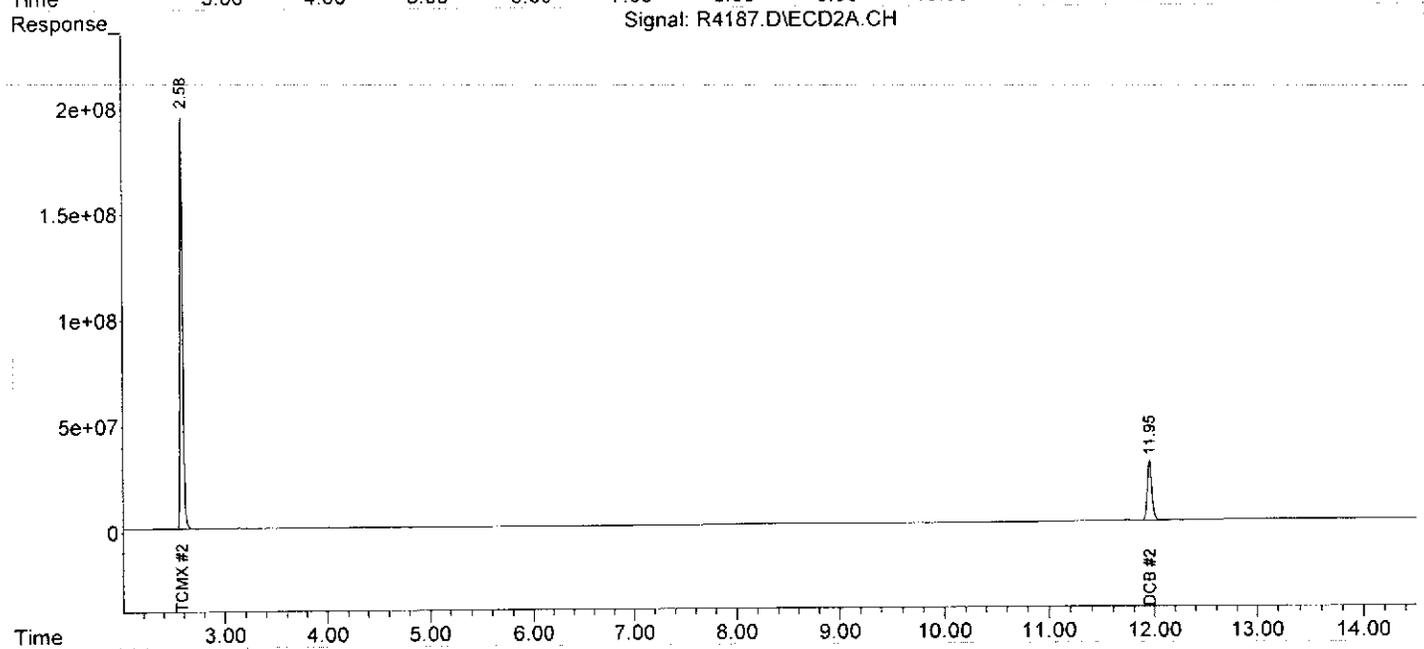
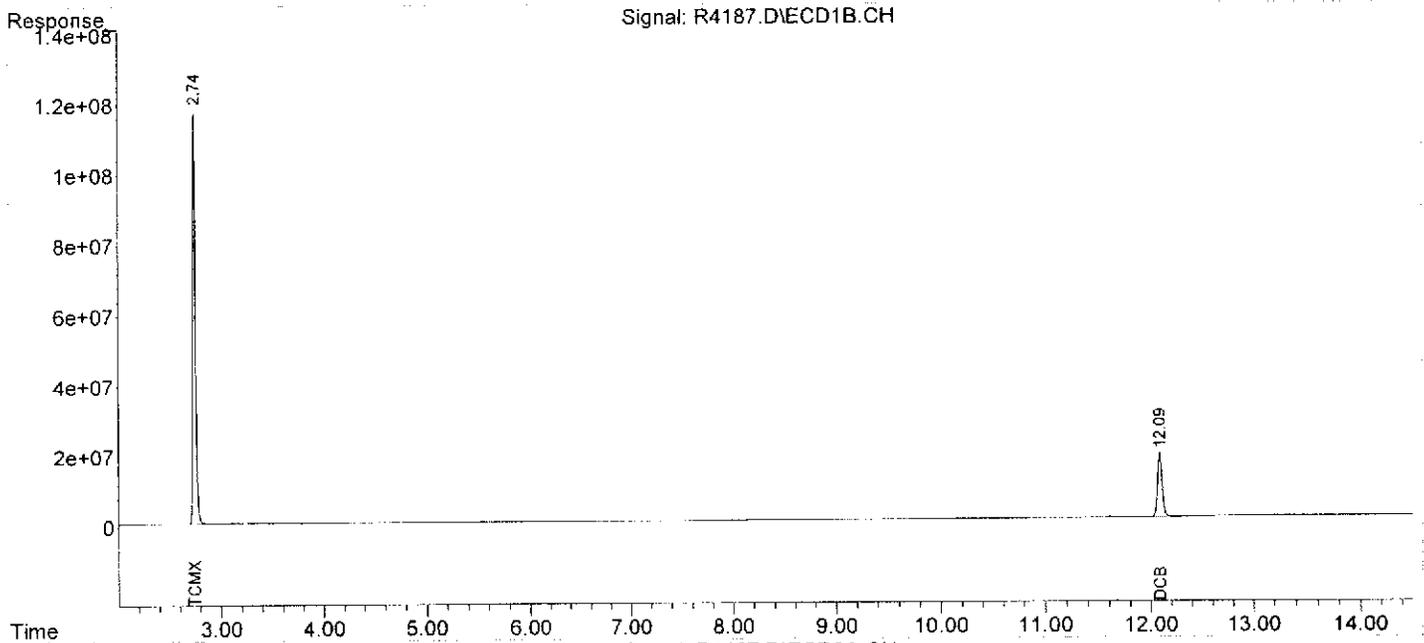
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----						
System Monitoring Compounds						
1) S TCMX	2.74	2.58	2155.6E6	3625.1E6	153.625	180.821
Spiked Amount	200.000					
				Recovery	= 76.81%	90.41%
2) S DCB	12.09	11.95	574.6E6	895.6E6	166.576	191.776
Spiked Amount	200.000					
				Recovery	= 83.29%	95.89%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\09-16-13\  
 Data File : R4187.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 16 Sep 2013 15:31  
 Operator : JS  
 Sample : PCB,BLKS130916-07,S,5.00g,0,09/16/13,4  
 Misc : NA,NA,NA,1  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 16 16:03:48 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: BLKS130918-13  
Client ID: PCB  
Date Received: NA  
Date Extracted: 09/18/2013  
Date Analyzed: 09/19/2013  
Data file: R4263.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.00g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: NA

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.040	0.016
Aroclor-1221	ND		0.040	0.016
Aroclor-1232	ND		0.040	0.016
Aroclor-1242	ND		0.040	0.016
Aroclor-1248	ND		0.040	0.016
Aroclor-1254	ND		0.040	0.016
Aroclor-1260	ND		0.040	0.016
Aroclor-1262	ND		0.040	0.016
Aroclor-1268	ND		0.040	0.016
PCBs	ND		0.040	0.016

D -- Dilution Performed  
J -- Value Less than RL & great than MDL  
E -- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
C --- Common laboratory contamination

Data Path : C:\MSDCHEM\1\DATA\09-19-13\  
 Data File : R4263.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 19 Sep 2013 9:32  
 Operator : JS  
 Sample : PCB,BLKS130918-13,S,5.00g,0,09/18/13,4  
 Misc : NA,NA,NA,1  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 19 13:32:41 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

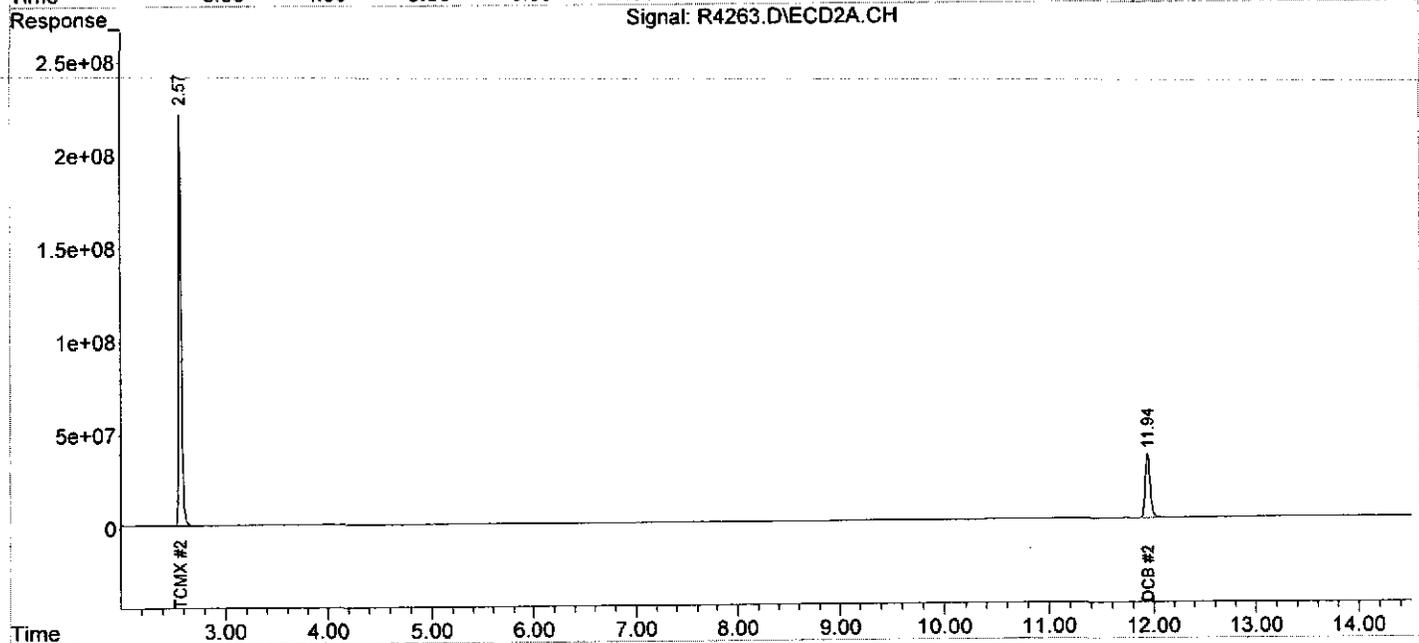
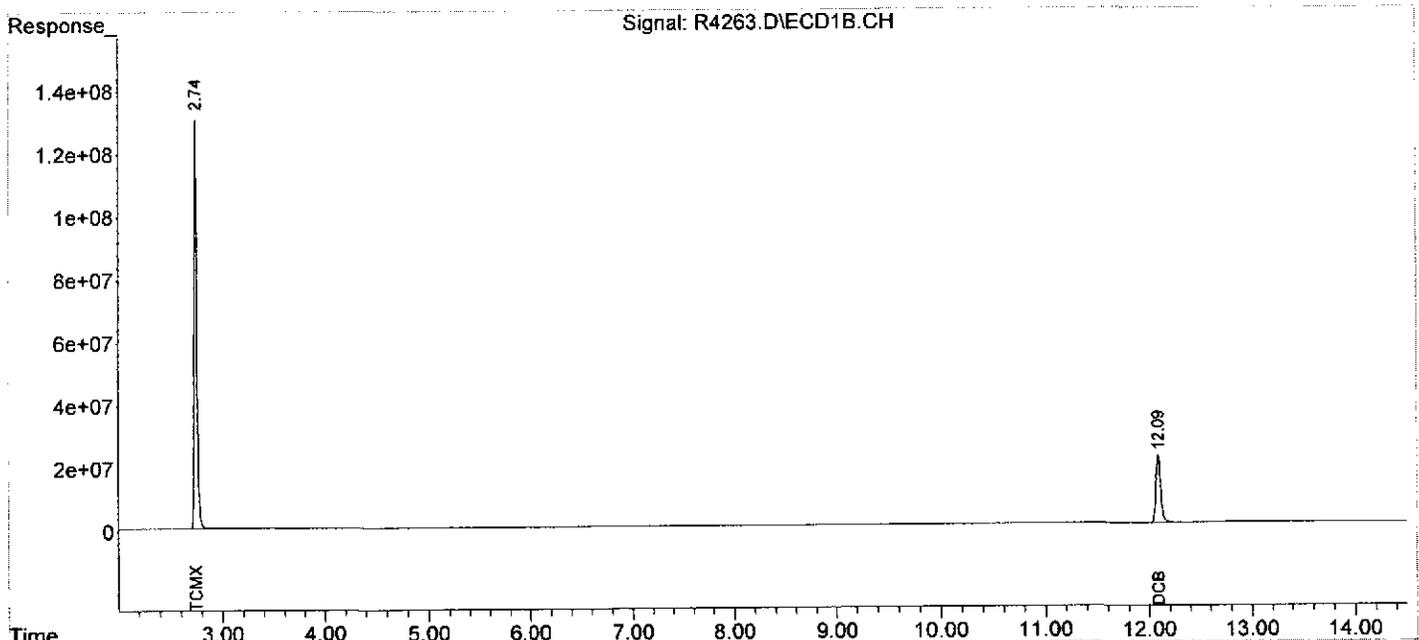
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----						
System Monitoring Compounds						
1) S TCMX	2.74	2.57	2322.7E6	3960.1E6	165.541	197.526
Spiked Amount	200.000					
				Recovery	= 82.77%	98.76%
2) S DCB	12.09	11.94	702.0E6	1157.1E6	203.488	247.777
Spiked Amount	200.000					
				Recovery	= 101.74%	123.89%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\09-19-13\  
 Data File : R4263.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 19 Sep 2013 9:32  
 Operator : JS  
 Sample : PCB,BLKS130918-13,S,5.00g,0,09/18/13,4  
 Misc : NA,NA,NA,1  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Sep 19 13:32:41 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M  
 Quant Title :  
 QLast Update : Fri Aug 30 14:25:46 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



**SAMPLE TRACKING**

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# PROJECT INFORMATION

## E13-08996: ARSYNCO

**To:** Jim Clabby  
 JMC Environmental Consultants  
 Fax: 1(732) 295-2150  
 EMail: jclabby@jmcenvironmental.com; ah

**Report To**

JMC Environmental Consultants  
 2109 Bridge Avenue  
 Building B  
 Point Pleasant, NJ 08742  
 Attn: Jim Clabby

**Bill To**

JMC Environmental Consultants  
 Aceto Corp.  
 4 Tri Harbor Court  
 Port Washington, NY 11050  
 Attn: Mr. Ed Kelly

Report Format	P.O. #	Received At Lab	TPHC Due	Verbal Due	Hardcopy Due
Reduced	22126	Sep 12, 2013 @ 17:15	NA	Sep 27, 2013	Oct 04, 2013 *

\* Any *Conditional or Hold* status will delay final hardcopy report sent date.

**Diskette Req.** SRP TXT

**\*\* QC Requirement (must meet): NJ SRS**

Lab ID	Client Sample ID	Depth	Sampling Time	Matrix	Unit	Field pH/Temp
08996-001	H-38S (0-2.0)	0/2	09/12/13@11:35	Soil	mg/Kg (ppm)	
08996-002	H-38S (2.0-4.0)	2/4	09/12/13@11:36	Soil	mg/Kg (ppm)	
08996-003	H-37W (2.0-4.0)	2/4	09/12/13@12:10	Soil	mg/Kg (ppm)	
08996-004	R-47R (0-1.0)	0/1	09/12/13@13:45	Soil	mg/Kg (ppm)	
08996-005	R-47R (1.0-2.0)	1/2	09/12/13@13:46	Soil	mg/Kg (ppm)	
08996-006	S-47 (0-1.0)	0/1	09/12/13@14:33	Soil	mg/Kg (ppm)	
08996-007	S-47 (1.0-2.0)	1/2	09/12/13@14:34	Soil	mg/Kg (ppm)	
08996-008	S-47 (2.0-3.0)	2/3	09/12/13@14:35	Soil	mg/Kg (ppm)	
08996-009	S-47 (3.0-4.0)	3/4	09/12/13@14:36	Soil	mg/Kg (ppm)	
08996-010	FB-8	NA	09/12/13@14:50	Aqueous	mg/L (ppm)	

Sample #	Test	Status	QA Method	TAT	Holding Time Expires
001	TCL PCB	Analyze	8082	STD/2 WKS	9/26/2013
002	TCL PCB	Analyze	8082	STD/2 WKS	9/26/2013
003	TCL PCB	Analyze	8082	STD/2 WKS	9/26/2013
004	TCL PCB	Analyze	8082	STD/2 WKS	9/26/2013
005	TCL PCB	Analyze	8082	STD/2 WKS	9/26/2013
006	TCL PCB	Analyze	8082	STD/2 WKS	9/26/2013
007	TCL PCB	Analyze	8082	STD/2 WKS	9/26/2013
008	TCL PCB	Analyze	8082	STD/2 WKS	9/26/2013
009	TCL PCB	Analyze	8082	STD/2 WKS	9/26/2013
010	TCL PCB	Analyze	8082	STD/2 WKS	9/19/2013



## PROJECT INFORMATION

**E13-08996: ARSYNCO**

INTEGRATED ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIPT VERIFICATION

CASE NO: E 13 08996

CLIENT: JMC

COOLER TEMPERATURE: 2° - 6°C: [checked] ( See Chain of Custody)

Comments

COC: COMPLETE / INCOMPLETE

KEY

- [checked] = YES/NA
[unchecked] = NO

- VOA received: [ ] Encore [ ] IGW - Methanol
[ ] Terra Core [ ] No Preservative

- [checked] Bottles Intact
[checked] no-Missing Bottles
[checked] no-Extra Bottles

- [checked] Sufficient Sample Volume
[checked] no-headspace/bubbles in VO's
[checked] Labels intact/correct
[checked] pH Check (exclude VO's)
[checked] Correct bottles/preservative
[checked] Sufficient Holding/Prep Time
[ ] Multiphasic Sample
[ ] Sample to be Subcontracted
[checked] Chain of Custody is Clear

1 All samples with "Analyze Immediately" holding times will be analyzed by this laboratory past the holding time. This includes but is not limited to the following tests: pH, Temperature, Free Residual Chlorine, Total Residual Chlorine, Dissolved Oxygen, Sulfite.

ADDITIONAL COMMENTS:

SAMPLE(S) VERIFIED BY: INITIAL [signature]

DATE 9/12/13

CORRECTIVE ACTION REQUIRED: YES [ ] NO [ ]

If COC is NOT clear, STOP until you get client to authorize/clarify work.

CLIENT NOTIFIED: YES [ ] Date/ Time: NO [ ]

PROJECT CONTACT:

SUBCONTRACTED LAB:

DATE SHIPPED:

ADDITIONAL COMMENTS:

VERIFIED/TAKEN BY: INITIAL [signature]

DATE 9/16/13 E13-08996 0109 2013

# Laboratory Custody Chronicle

IAL Case No.

**E13-08996**

Client JMC Environmental Consultants

Project ARSYNCO

Received On 9/12/2013@17:15

Department: GC			<u>Prep. Date</u>	<u>Analyst</u>	<u>Analysis Date</u>	<u>Analyst</u>
TCL PCB	08996-001	Soil	9/16/13	Archimede	9/16/13	Justyna
"	-002	"	9/18/13	Archimede	9/19/13	Justyna
"	-003	"	9/16/13	Archimede	9/16/13	Justyna
"	-004	"	9/16/13	Archimede	9/16/13	Justyna
"	-005	"	9/16/13	Archimede	9/16/13	Justyna
"	-006	"	9/16/13	Archimede	9/16/13	Justyna
"	-007	"	9/16/13	Archimede	9/16/13	Justyna
"	-008	"	9/16/13	Archimede	9/16/13	Justyna
"	-009	"	9/16/13	Archimede	9/16/13	Justyna
"	-010	Aqueous	9/13/13	Archimede	9/16/13	Justyna